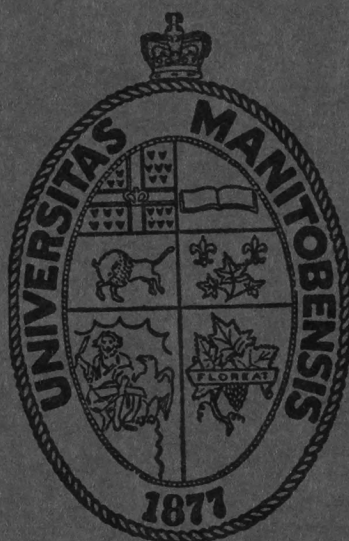


UNIVERSITY *of* MANITOBA

WINNIPEG



Arts and Science Calendar
Including Pharmacy
Session 1925-26

CALENDAR

University of Manitoba

WINNIPEG

*Incorporated by Act of the Manitoba
Legislature, 1877*

*Definitely Reorganized as a Provincial
University, 1917*

ARTS AND SCIENCE
INCLUDING PHARMACY
1925-1926

WINNIPEG

Printed for the University by Saults & Pollard Limited
1925

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In the numbering of Courses of Instruction throughout this Calendar, except where it is otherwise explicitly stated in a footnote, the assignment of an odd number indicates that the course is given during the first term of the annual session, that of an even number that it is given during the second term, the assignment of a double number, odd and even, that it is given throughout both terms of the session.

ALMANAC 1925-1926

- Aug. 1—Last day for receiving applications for the September Supplemental Examinations in Arts, Sciences, Architecture, Engineering, Medicine and Pharmacy.
 18—Summer Course (Medical School) begins.
 22—Last day for receiving applications for the September Matriculation Examinations, regular and supplemental.
 Application for admission from new students with their credentials should be filed with the Registrar by this date.
- Sept. 1—Supplemental and Matriculation Examinations begin.
 Surveying School begins.
 Board of Studies meets.
 8—Registration in Law begins.
 12—Last day for receiving applications for Supplemental Examinations from Students attending the Medical Summer Course.
 14—Lectures in Law begin. Imposition of fine for late registration in Law begins.
 15—Board of Studies meets.
 17—Registration in Arts, Science, Pharmacy and Architecture (First Year) begins.
 University Council meets.
 19—Registration in Law closes at 5 p.m.
 21—Supplemental Examinations in Medicine begin.
 Lectures begin in Arts, Science, Pharmacy and Architecture (First Year).
 Imposition of fine for late registration in Arts, Science, Pharmacy and Architecture (First Year) begins.
 Supplemental and Special Examinations in Law begin.
 23—First meeting of Arts and Science Faculty.
 28—Registration in Medicine begins.
 29—Registration begins in Engineering and in Architecture (Second, Third and Fourth Years).
 30—Registration closes in Medicine at 5 p.m.
 Last day for payment of fees in Medicine.
- Oct. 1—Lectures begin in Engineering and in Architecture (Second, Third and Fourth Years) and in Medicine.
 Registration closes in Arts, Science, Pharmacy and Architecture (First Year) at 5 p.m. Last day for payment of fees in these faculties.
 3—Imposition of fine for late registration in Engineering and in Architecture (Second, Third and Fourth Years) begins.
 5—General Faculty Council meets.
 Registration closes in Engineering and Architecture at 5 p.m.
 Last day for payment of fees in Engineering and Architecture.
 6—Board of Studies meets.
 9—University Field Day.
 17—Western Canadian Inter-University Field Day.
 20—Board of Studies meets.
 21—Regular monthly meeting of the Arts and Science Faculty.
- Nov. 2—General Faculty Council meets.
 3—Board of Studies meets.
 9—Payment of first moiety of scholarships.
 17—Board of Studies meets.
 18—Regular monthly meeting of Arts and Science Faculty.
 19—University Council meets.
 24—Last day for receiving applications for December Supplemental and Special Examinations in Arts, Science, Engineering, Architecture and Pharmacy. Term Examinations in Law begin.

- Dec. 1—Board of Studies meets.
 7—General Faculty Council meets.
 11—Lectures close for students in Arts, Science and Pharmacy who write December Examinations.
 12—Lectures close in Engineering and Architecture.
 December Examinations begin in above faculties.
 14—December examinations in Engineering and Architecture begin.
 15—Board of Studies meets.
 16—Regular monthly meeting of Arts and Science Faculty.
 23—Lectures close in Medicine, Law and for students in other faculties who do not write December Examinations.
 1926
- Jan. 4—University lectures resumed in all faculties.
 Last date for payment of second term fees. General Faculty Council meets.
 5—Board of Studies meets.
 19—Board of Studies meets.
 20—Regular monthly meeting of Arts and Science Faculty.
 21—University Council meets.
- Feb. 1—General Faculty Council meets.
 2—Board of Studies meets.
 8—Payment of second moiety of scholarships. Term Examinations in Law begin.
 16—Board of Studies meets.
 17—Regular monthly meeting of Arts and Science Faculty.
- Mar. 1—General Faculty Council meets.
 2—Board of Studies meets.
 9—Most Rev. Robert Machray, D.D., LL.D., Archbishop of Rupert's Land, first Chancellor of the University, died, 1904.
 16—Board of Studies meets.
 17—Regular monthly meeting of Arts and Science Faculty.
 18—University Council meets.
 24—Last day for receiving applications for April and May Supplemental and Special Examinations.
- April 5—General Faculty Council meets.
 6—Board of Studies meets.
 9—Lectures in Law close.
 15—Lectures in Engineering and Architecture close.
 Final Examinations in Engineering and Architecture begin.
 16—Lectures in Arts, Science and Pharmacy close.
 19—First Term Supplemental Examinations in above faculties begin.
 20—Board of Studies meets.
 21—Regular monthly meeting of Arts and Science Faculty.
 26—Final Examinations in Arts, Science and Pharmacy begin.
- May 3—Final Examinations in Medicine (Fifth Year) begin.
 4—Board of Studies meets.
 17—Examinations in First, Second, Third and Fourth Years Medicine begin.
 20—Convocation for conferring of degrees in Arts, Science, Medicine, Engineering, Architecture, Pharmacy, Law, Agriculture and Home Economics.
- June 1—Board of Studies meets.
 7—Dental License Examination begins.
 8—Nurses' Registration Examination begins.
 17—University Council meets.

The practical Examinations in Arts, Science, Medicine, Engineering and Pharmacy will be held by arrangement of the Departments concerned, in April or May, prior to the opening of the written Examinations or during their progress. The dates of the Examinations in Agriculture and Home Economics will be fixed by Manitoba Agricultural College and in Law by Manitoba Law School.

THE UNIVERSITY OF MANITOBA

HISTORICAL SKETCH

The University of Manitoba was established by Act of the Manitoba Legislature in 1877 "for the purpose (as the preamble states) of raising the standard of higher education in the Province and of enabling all denominations and classes to obtain academic degrees." The government of the University was vested in a Chancellor, a Vice-Chancellor and a University Council, with powers as a "body politic and corporate" to receive, hold and sell property, to arrange courses of study, to hold examinations and to grant degrees. The Act provided for the affiliation of Colleges and for the granting of degrees in Divinity by those Colleges to students who should have obtained recognized academic standing in Arts subjects. The Chancellor was to be appointed by the Lieutenant-Governor-in-Council, and the University Council was to consist of seven representatives from each of the affiliated Colleges, three from Convocation and two from the Board of Education of the Province.

The three Colleges already in existence in Manitoba were affiliated with the University at its inception. St. John's, the Anglican institution, had been reorganized in 1866 by Bishop (afterwards Archbishop) Machray, who became in 1877 the first Chancellor of the University. St. Boniface had grown from a mission school early in the century to be the chief Roman Catholic College of the West. Manitoba College, in connection with the Presbyterian Church, had been organized in 1871. The Vice-Chancellor of the new University was the Hon. Joseph Royal; the Bursar was Mr. Duncan Macarthur; and the Registrar Mr. E. W. Jarvis.

Since 1877 four Colleges have been received into affiliation with the University. The Manitoba Medical College was affiliated in 1882, Wesley College was affiliated in 1888, the Manitoba College of Pharmacy in 1902, and the Manitoba Agricultural College in 1907.

In 1885 an agreement between the Dominion Government and the Province of Manitoba provided for an endowment not exceeding 150,000 acres of land for the University of Manitoba "for its maintenance as a University capable of giving proper training in the higher branches of education."

In 1900 an amendment to the University Act gave the University "power to give instruction and teaching in the several faculties and different branches of knowledge as may from time to time be directed by the Council of the University." The present site was granted by the Dominion Government, and the corner-stone was laid in 1900 by the King, then Duke of Cornwall and York. Four new chairs in the Natural and Physical Sciences were founded in 1904, and as well one in Mathematics and one in the combined subjects of Histology, Pathology and Bacteriology. The number of Science chairs was subsequently increased to six, Geology and Mineralogy, which at the first was combined in part with Botany and in part with Physics, being given independent status, and as well Zoology, which at first was attached to Physiology. A department of Civil Engineering was organized in 1907, and departments of Electrical Engineering, Political Economy, English and History in 1909. Departments of Architecture, of French and of German were created in 1913, and began their work in the fall of that year. In the fall of 1914 the following new departments were instituted: A department of Pharmacy, which took over the teaching in

this subject formerly done by the Manitoba College of Pharmacy; a department of Mechanical Engineering; a department of Classics. In addition, the work of the departments of English, French, German, History and Political Economy, which had hitherto been confined to the subjects of the Third and Fourth Years in Arts, was extended to include those of the First and Second Years and the department of Mathematics, which had hitherto covered only the Second, Third and Fourth Years, assumed responsibility for the work of the First Year as well. The University thus came into the position of offering for the first time through its own faculty the full work of the course in Arts for the B.A. degree.

The affiliation of Manitoba Agricultural College with the University was terminated by an Act of the Provincial Legislature in 1912 but restored again in 1916.

The first President of the University, Dr. James A. MacLean, assumed office on January 1st, 1913.

By the University Amendment Act, 1917, there was introduced into the corporation a Board of Governors of nine members, appointed by the Lieutenant-Governor-in-Council for a period of three years, three retiring each year, and in this Board is vested "the government, conduct, management and control of the University," including its lands, investments, appointments, limits of instruction, etc. The Council of the University was continued, but with a reduction in the number of its members from seventy-two to twenty-eight and a limitation of the sphere of its activity to that of "general charge of the academic work of the University," within which range it is still subject to the plenary power vested in the Board of Governors. Its representative character is maintained as is shown by the following composition: The Chancellor, the President, four representatives from the faculty of the University, two representatives from Manitoba Agricultural College, one representative from Manitoba Medical College, one representative from the College of Physicians and Surgeons of Manitoba, six members to be appointed by the Lieutenant-Governor-in-Council, four representatives to be elected by Convocation and two representatives from each of the affiliated Arts Colleges, St. Boniface, St. John's, Manitoba and Wesley. Definite legislative recognition is given by the practice of the submission annually to the Lieutenant-Governor-in-Council through the Minister of Education of a budget of "anticipated revenues and proposed expenditures" and of the appropriation by the Legislature of money for University expenditures.

During the session 1919-1920, an agreement was reached with the Faculty of Manitoba Medical College whereby that institution passed out of existence upon the assumption by the University of responsibility for the maintenance of medical teaching in an adequate manner. In pursuance of this arrangement a full Medical Faculty was appointed and a faculty organization completed.

Provision was also made for the teaching by the University of philosophy, including metaphysics, ethics and psychology, and a chair of Philosophy and Psychology was established.

The Board of Governors completed a reorganization of the University Faculty which became effective on June 1st, 1921. Three faculties were established, viz., the Faculty of Arts and Science, the Faculty of Engineering and Architecture, and the Faculty of Medicine, with a Dean of each Faculty. A General Faculty Council was also instituted.

On March 1st, 1924, by Act of the Manitoba Legislature, the administration of Manitoba Agricultural College was transferred to the Board of Governors of the University and it was arranged that in future the instructional work of the College should be carried on as a Faculty of Agriculture of the University, provision being made at the same time for the appointment of an Advisory Council for the purpose of relating the work in Agriculture to the needs of the people.

COLLEGES AFFILIATED WITH THE UNIVERSITY

St. Boniface College, St. Boniface, in connection with the Roman Catholic Church. *Rector*—Rev. H. Bourque, S.J., St. Boniface College.

St. John's College, Winnipeg, in connection with the Church of England. *Warden*—Rev. G. A. Wells, C.M.G., B.A., St. John's College.

Manitoba College, Winnipeg, in connection with the Presbyterian Church in Canada. *Principal*—Rev. John MacKay, M.A., D.D., Manitoba College.

Wesley College, Winnipeg, in connection with the Methodist Church in Canada. *President*—Rev. J. H. Riddell, B.A., D.D., 41 Balmoral Place.

Manitoba Law School, Winnipeg. Chairman of Trustees—Hon. H. A. Robson, K.C., LL.D., Union Bank Building.

Visitor

SIR JAMES AIKINS, M.A., LL.D., K.C.
Lieutenant-Governor of Manitoba

Chairman of Board of Governors

JOHN A. MACHRAY, M.A., LL.B., K.C.

Chancellor

MOST REV. S. P. MATHESON, D.D., D.C.L.
Archbishop of Rupert's Land

Vice-Chancellor

RIGHT REV. MSGR. A. A. CHERRIER, LL.D.

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JAMES A. MACLEAN, PH.D., LL.D.

Honorary Bursar

JOHN A. MACHRAY, M.A., LL.B., K.C.

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W. J. SPENCE, B.A.

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Appointed for a three-year term expiring in 1927:

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ROBERT M. MATHESON, K.C., of Brandon.
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Land, Chancellor.

Vice-Chairman:

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DANIEL MCINTYRE, M.A., LL.D.
JOHN T. HAIG, B.A.

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Representative on the Social Committee of the University of Manitoba Students' Union: Mrs. U. N. Macdonnell.

Representative on the Debating Committee of the University of Manitoba Students' Union: Professor D. C. Harvey.

Representative on the Executive of the Dramatic Society of the University of Manitoba Students' Union: Professor A. J. Perry.

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Secretary—

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Faculty of Medicine—

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 PROFESSOR C. H. LEE
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MRS. U. N. MACDONNELL

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Dean of Women.....353 Broadway
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- FREDERICK CHARLES GREEN, M.C., M.A. (St. Andrew's), Ph.D. (Cologne),
 Docteur de l'Université de Paris.
Assistant Professor of French.....152 Polson Ave.
- FREDERICK STANLEY NOWLAN, A.M. (Harvard)
Assistant Professor of Mathematics.....148 Langside Street
- ARTHUR SUTHERLAND PIGOTT WOODHOUSE, B.A. (Toronto), A.M.
 (Harvard)
Assistant Professor of English.....168 Kennedy St.
- JOHN FRANCIS TODD YOUNG, M.A., Ph.D. (Toronto)
Assistant Professor of Physics.....Suite 11, Gaspe Apts., 601 Broadway
- CELINE A. BALLU, M.A. (Wisconsin)
Lecturer in French.....University of Manitoba
- A. MARIE HAYNAUD, B.A. (Queen's), M.A. (Chicago)
Lecturer in French.....394 Assiniboine Ave.
- CHARLES W. LOWE, M.Sc. (Birmingham)
Lecturer in Botany.....1588 Wolseley Ave. W.
- *EILEEN BULMAN, M.A. (Columbia), B.Sc. (Man.)
Lecturer in Zoology.....139 Middle Gate
- JOSEPH E. HOWE, B.A. (Acadia and Yale), M.A. (Acadia)
Lecturer in History.....72 Chestnut Street
- GEORGE C. HADDOW, M.A. (Toronto), B.A. (Oxon.)
Lecturer in English.....University of Manitoba
- HERMAN L. TRACY, B.A. (Toronto), Ph.D. (Chicago)
Lecturer in Greek and Latin.....University of Manitoba

R. FLETCHER ARGUE, M.A. (Man.)	
<i>Lecturer in English</i>	189 Kingston Row
MARCEL EDMOND JEAN RICHARD, B.A. (Alberta)	
<i>Lecturer in French</i>	University of Manitoba
FERRIS NEAVE, B.Sc. (Manchester)	
<i>Lecturer in Zoology</i>	University of Manitoba

This Faculty also includes one representative of each department of other Faculties which give instruction in the Faculty of Arts and Sciences, the President and the Registrar.

SESSIONAL APPOINTMENTS FOR 1924-1925

ANNA C. A. JONES (Dipl. in Education)	
<i>Assistant in German</i>	116 Cathedral Ave.
DOUGALD McDougall, B.Sc. (Man.)	
<i>Assistant in Pharmacy</i>	279 Inglewood Street
GEORGE ALEXANDER ELLIOTT, B.A. (Man.)	
<i>Assistant in Political Economy</i>	353 Broadway
GEORGE BROWNELL, B.Sc. (Man.)	
<i>Assistant in Geology</i>	215 Chestnut Street
FLORENCE HARRIS, B.A. (Man.)	
<i>Fellow in Classics</i>	140 Evanson Street
SAMUEL SILBERFARB, B.A. (Man.)	
<i>Fellow in Mathematics</i>	753 Magnus Ave.
IDA KIRK SCOTT, B.A., B.Sc. (Man.)	
<i>Demonstrator in Botany</i>	188 Montrose Street
ALLAN JAMES FLEMING, B.Sc. (Man.)	
<i>Demonstrator in Physics</i>	146 Montrose Street
THOMAS ERROL BABB,	
<i>Demonstrator in Physics</i>	Ste. 10, Diana Court
HORACE BROCKLESBY,	
<i>Student Demonstrator in Chemistry</i>	2015 Assiniboine Cres.
CHARLES FREDERICK GOODEVE,	
<i>Student Demonstrator in Chemistry</i>	238 Tache Street, Norwood
MORRIS ZASLAVSKY, B.Sc. (Man.)	
<i>Student Demonstrator in Chemistry</i>	179 Overdale Place
HENRY ALEXANDER BLAIR,	
<i>Student Demonstrator in Physics</i>	251 Young Street
ALBERTA GILBERT	
<i>Student Demonstrator in Physics</i>	338 Florence Ave.
HENRY BOYD PETERS	
<i>Student Demonstrator in Physics</i>	59 Noble Ave.
ALLEN SMITH,	
<i>Student Demonstrator in Physics</i>	112 Lipton Street
ARDEN GWENDOLYN NEWELL,	
<i>Student Assistant in Botany</i>	213 Ruby Street

WILMA FRANCES SERVICE, <i>Student Assistant in Botany</i>	301 Balmoral Street
THOMAS EDWARD HOLLAND, B.Sc. (Man.) <i>Student Assistant in Chemistry</i>	21 Emily Street
HELGI JOHNSON, <i>Student Assistant in Chemistry</i>	906 Banning Street
EDWARD WALTER SAMSON, <i>Student Assistant in Chemistry</i>	271 Atlantic Ave.
NORMAN OSCAR STEIN, <i>Student Assistant in Chemistry</i>	288 Jamieson Ave.
HORACE JOHN FRASER, <i>Student Assistant in Geology</i>	393 Young Street
RUBY BERE, <i>Student Assistant in Zoology</i>	4 Central Park Apts.
RALPH DURHAM BIRD, B.Sc. (Man.) <i>Student Assistant in Zoology</i>	100 Arlington Street
LEONARD BERTRAM CLARK, B.A. (Man.) <i>Student Assistant in Zoology</i>	168 Arlington Street

OFFICERS OF ADMINISTRATION, 1924-1925

<i>President</i>	JAMES A. MACLEAN, Ph.D., LL.D.
<i>Registrar</i>	W. J. SPENCE, B.A.
<i>Assistant Registrar</i>	W. B. H. TEAKLES, B.A.
<i>Honorary Bursar</i>	J. A. MACHRAY, M.A., LL.B., K.C.
<i>Secretary University Land Board</i>	R. H. SHANKS
<i>Accountant</i>	S. K. FORDE
<i>Dean of Faculty of Arts and Science</i>	W. TIER, M.A.
<i>Dean of Faculty of Engineering and Architecture</i>	E. P. FETHERSTONHAUGH, M.C., B.Sc.
<i>Dean of the Faculty of Medicine</i>	S. W. PROWSE, B.A., M.D., C.M.
<i>Secretary of the Faculty of Medicine</i>	A. N. MCLEOD, B.A., M.D., C.M.
<i>Dean of Women</i>	MRS. URSILLA N. MACDONNELL, M.A., Ph.D.
<i>Librarian</i>	F. E. NUTTALL, M.A.

President's Secretary: DOROTHY BELL.

Registrar's Assistants: S. HELENA MACVICAR, C. F. BLACK, B.A., G. C. YOUNG, GLADYS TREMAYNE, LILLIAN COOK, BEATRICE M. ALEXANDER, B.A., DOROTHY CAIRNS, MARGUERITE S. PETRIE, FRANCES M. DOUGLAS.

Accountant's Assistant: NELL V. RAISBECK.

Assistants to Secretary of Faculty of Medicine: ELIZABETH M. PEPLOW, EDITH M. BENTLEY.

Library Assistants: HORATIO WALLACE, M.A., J. ADINA FALCONER, B.A., FLORENCE BISSETT, B.A., EDNA GREER, B.A. (Engineering Library), SIDNEY D. MCINTYRE (Medical Library), RUTH MONK (Medical Library).

UNIVERSITY EXAMINERS, 1924-1925

ARTS AND SCIENCE

Classics: Professor Clark, Professor Johnson (Wesley), Assistant Professor Hugill, Dr. H. L. Tracy, Rev. W. P. Stephenson (St. John's), Rev. Hugh McCarthy (St. Bon.), Rev. G. Longpre (St. Bon.).

Biblical Greek, Hebrew and Scripture: Very Rev. J. W. Matheson (St. John's), Rev. Dr. Riddell (Wesley), Rev. Dr. Baird (Man.), Rev. Dr. Stewart (Wesley), Rev. Warden Wells (St. John's), Rev. Dr. Perry (Man.), Professor A. E. Hetherington (Wesley), Rev. Dr. MacKay (Man.).

English: Professor Crawford, Rev. E. A. W. Gill (St. John's), Assistant Professors Perry and Allison, Professor A. L. Phelps (Wesley), Assistant Professor Woodhouse, Mr. R. F. Argue, Mr. G. C. Haddow, Assistant Professor W. Kirkconnell (Wesley), Rev. H. McCarthy (St. Bon.).

French: Professor Osborne, Professor A. D. Baker (St. John's), Assistant Professor Green, Mlle. C. A. Ballu, Mlle. A. M. Haynaud, Miss E. D. Bowes (Wesley), Mr. M. E. J. Richard, Mr. H. Allard (Wesley), Rev. G. Longpre (St. Bon.).

German: Professor Heinzelmann, Mrs. Anna C. A. Jones.

Icelandic: Professor Johnson (Wesley), Rev. H. Marteinsson.

Philosophy: Professors Lodge and Wright, Rev. Dr. Fleming (Man.), Rev. W. C. de Pauley (St. John's), Rev. Dr. Elliott (Wesley), Professor Hetherington (Wesley), Rev. D. Gariepy (St. Bon.).

Political Economy: Professor A. B. Clark, Rev. J. F. Cross (St. John's), Assistant Professor Jones, Dr. L. W. Moffit (Wesley), Mr. G. A. Elliott, Rev. D. Gariepy (St. Bon.).

Sociology: Rev. Dr. Riddell (Wesley), Assistant Professor Jones.

Religious Education: Professor A. E. Hetherington (Wesley), Professor F. W. Kerr (Man.), Rev. Warden Wells (St. John's), Rev. D. Gariepy (St. Bon.).

History: Professor Martin, Assistant Professor Harvey, Rev. E. A. W. Gill (St. John's), Mr. J. E. Howe, Dr. L. W. Moffit (Wesley), Mrs. U. N. Macdonnell, Mr. A. C. Cooke (Wesley), Rev. H. McCarthy (St. Bon.), Rev. G. Longpre (St. Bon.).

Mathematics and Astronomy: Professors MacLean and Wilson, Assistant Professor Warren, Rev. J. F. Cross (St. John's), Assistant Professor Tier, Professor O. T. Anderson (Wesley), Assistant Professor F. S. Nowlan, Mr. S. Silberfarb, Rev. E. Boucher (St. Bon.).

Physics: Professor Allen, Assistant Professor McClung, Rev. J. F. Cross (St. John's), Professor O. T. Anderson (Wesley), Professor S. Carson Lee (Man. Agric. Coll.), Assistant Professor J. F. T. Young, Mr. A. J. Fleming, Mr. T. E. Babb, Mr. H. A. Blair.

Botany: Professor Buller, Assistant Professor Roberts, Mr. C. W. Lowe, Miss Kirk Scott.

Geology and Mineralogy: Professor Wallace, Assistant Professor DeLury, Mr. G. M. Brownell.

Chemistry: Professor Parker, Assistant Professors Armes and Shipley, Dr. P. G. Hiebert, Mr. S. G. Lipsett, Rev. A. Chicoine (St. Bon.).

Zoology: Professor O'Donoghue, Assistant Professor Riley, Mr. Ferris Neave, Rev. A. Chicoine (St. Bon.).

Education: Professor Lodge, Mr. C. K. Newcombe, Dr. W. A. McIntyre.

Biochemistry: Professor A. T. Cameron, Dr. F. D. White.

Physiology: Professor V. H. K. Moorhouse, Assistant Professor K. J. Austmann, Dr. M. S. Loughheed, Dr. W. G. Mackersie.

Pharmacy: Professor Bletcher, Mr. D. McDougall.

CURRICULA IN ARTS

The University of Manitoba confers two degrees in Arts, viz., Bachelor of Arts (B.A.) and Master of Arts (M.A.). The requirements from those who would proceed in course to these degrees are set forth below.

I—BACHELOR OF ARTS

Matriculation

The requirements for Matriculation for Arts are set forth in detail in the Matriculation Calendar. No applicant may be received as a regular Student of the Junior Division in Arts and Science who carries more than one condition from Matriculation (the work of Grades IX, X and XI in the High Schools as prescribed for University entrance). Every applicant, moreover, presenting himself for admission with a condition from Matriculation will be subject to such limitation of his first session's course in the Junior Division as may be ordered by the Committee on Students' Courses. The rule regarding prerequisites may also debar him from taking a Junior Division course in any subject before the Matriculation course in that subject or in any other judged to be prerequisite, has been completed. Students who have fully completed courses recognized by the Department of Education for purposes other than University entrance, such as the Normal School Entrance Course or the Practical Arts Course, and whose deficiencies on the Matriculation course do not exceed two conditions may be accepted as students of the Junior Division subject to such limitation of their first session's program in the Junior Division as may be ordered by the Committee on Students' Courses and with the requirement of approved concurrent instruction in the Matriculation work as yet uncompleted.

Undergraduate Course

A student who has fulfilled the requirements for Arts Matriculation may proceed to the Pass or General Bachelor of Arts degree by completing satisfactorily, subject to the rules and regulations set forth hereafter, forty units* of credit in the Junior Division in Arts and Science and thirty-two units of credit in the Senior Pass Division in Arts and Science. He may proceed to the Honors Bachelor of Arts degree by completing satisfactorily, subject to the rules and regulations set forth hereafter, forty units of credit in the Junior Division in Arts and Science and forty-eight units of credit in the Senior Honors Division in Arts. The work for the Pass or General degree is normally done in four annual sessions and that for the Honors degree in five, two being given to the Junior Division, and two or three, as the case may be, to the Senior Division.

Junior Division in Arts and Science

The work of the Junior Division in Arts and Science comprises the following courses from which work must be completed by the student proceeding to the Bachelor of Arts degree, representing, in the aggregate, forty units of credit. This work must be chosen subject to the restrictions

*A unit is a body of work to which is assigned for instructional purposes one hour of lecture or other class room exercise per week or one continuous laboratory period of two or three hours per week, throughout an entire session, or the equivalent.

set out below and the requirements with regard to prerequisite courses found at the opening of the respective departmental announcements. The Roman numeral after the name of a subject indicates the year of a student's course in which it is normally taken and the Arabic numeral in parentheses thereafter the value of the subject in units of credit towards a degree.

Required subjects (totalling twenty-four units)—

1. English I (4), English II (4).
2. Mathematics I (4).
3. French I (4), French II (4); *or*
German I (4), German II (4); *or*
Latin I (4), Latin II (4); *or*
Greek I (4), Greek II (4).

(The language elected under 3 must be a language already taken for Matriculation credit.)

4. History II (4).

Elective Subjects (from which work of the value of sixteen units must be completed)—

(The language taken in 3 above is, of course, excluded from election here.)

- Biblical Greek I (4), Biblical Greek II (4);
- French I (4), French II (4);
- German I (4), German IA (4), German II (4); *
- Greek I (4), Greek IA (4), Greek II (4); *
- Hebrew I (4), Hebrew II (4);
- Icelandic I (4), Icelandic II (4).
- Latin I (4), Latin II (4);
- History I (4).
- Astronomy II (2).
- Botany II (2);
- Chemistry I (4), Chemistry II (4), Chemistry IIA (5); *
- Drawing I (2). †
- Geology II (2);
- Mathematics IA *or* IIA (2), Mathematics II (4);
- Physics I (4), Physics IA (4);
- Zoology II (2), Zoology IIA (5);
- Economics II (2);
- Ethics II (2);
- Logic II (2).
- Psychology II (2);

The program of work of each student must be approved by the Board of Studies of the University through its Committee on Students' Courses. The normal program for each session is work representing twenty units of credit.

The student should also bear in mind that he will not be accorded the units of credit towards a degree represented by any particular subject until all the requirements with respect to class work, laboratory work and examinations pertaining to that subject have been fully completed. He is referred to the regulations governing failures, supplemental examinations and summer school work for information as to the way in which deficiencies can be removed.

*Only *eight* units may be taken in German or Greek and only *nine* units in Chemistry.

†A student who elects Drawing I must also take Mathematics IA.

The following considerations should be kept in view by students in considering their choices of subjects in the Junior Division:

1. Strict regard must be had for the prescription of prerequisites for the various subjects at the opening of the respective departmental announcements.

2. The Committee on Students' Courses will expect that unless in exceptional cases a subject will not be elected in any year other than the one in which, according to its designation, it is "normally taken."

3. A departure from this rule is found in the practice of recognizing a student's right in either year of the Senior Pass Division or in the first year of the Senior Honors Division to elect as *one* of his four subjects a subject of the Junior Division, provided of course that he secures the approval of the Committee on Students' Courses.

4. A student desiring to qualify for entrance upon the course for the degree in Civil Engineering or in Electrical Engineering, may if fully matriculated, do so upon completing twenty units in the Junior Division in Arts and Science upon the following course: English I, Mathematics I, Mathematics IA, Drawing I, Chemistry I, and one of French I, German I, Latin I, Greek I. The language elected must have been taken for Matriculation.

5. A student desiring to qualify for entrance upon the course for the degree in Medicine, may, if fully matriculated (with a course involving Latin and Physics) do so upon completing forty units in the Junior Division in Arts and Science upon the following course: English I, English II; Mathematics I; German IA, German I or German II*; Botany II; Chemistry I, Chemistry IIA; Physics IA; Zoology IIA.

6. A student desiring to qualify for entrance upon the course for the degree in Law may, if fully matriculated (with a course involving Latin) do so upon completing forty units in the Junior Division, his course to include Latin I and to comply in all respects with the standard requirements for admission to the Senior Division of the curriculum leading to the B.A. or B.Sc. degree.

7. A student who has not taken both Physics and Chemistry for Matriculation must in the Junior Division complete a Science subject or Science subjects of the weight of four units. An exception will be made in the case of a student who completes twenty-four units of language work in the Junior Division, in which case the requirement of four units of Science work may be met in the Senior Division.

Senior Pass Division in Arts and Science

A student may be admitted conditionally to the Senior Pass Division in Arts and Science who has completed at least thirty-six units of credit in the Junior Division upon an approved curriculum. In case he is permitted to enter without having completed in full the forty required units of the Junior Division this fact will be taken into account in approving his course for the first academic year of his work in the Senior Division.

The work of the Senior Pass Division in Arts and Science comprises the following courses from which work must be completed representing in the aggregate thirty-two units of credit. This work must be chosen

*If German has been taken for Matriculation, French IA with French I, or French II should be substituted for the German courses here indicated.

subject to the restrictions set out below and the requirements with regard to prerequisite courses found at the opening of the respective departmental announcements. The Roman numeral after the name of a subject indicates the year of a student's course in which it is normally taken and the Arabic numeral in parentheses thereafter the value of the subject in units of credit towards a degree.

Group I (from which work of the value of sixteen units must be completed).

Biblical Greek III (4), Botany III (4), Chemistry III (4), Economics III (4), English III (4), English IIIA (2)*, French III (4), Geology III (4), German III (4), Greek III (4), Hebrew III (4), History III (4), Latin III (4), Mathematics III (4), Mathematics IIIA (2)†, Philosophy III (4), Physics III (4), Religious Education III (4)‡, Scripture III (4)‡, Sociology III (4), Zoology III (4).

Group II (from which work of the weight of sixteen units must be completed—

Biblical Greek IV (4), Botany IV (4), Chemistry IV (4), Economics IV (4), English IV (4), French IV (4), Geology IV (4), German IV (4), Greek IV (4), Hebrew IV (4), History IV (4), Latin IV (4), Mathematics IV (4), Applied Mathematics IV (4), Philosophy IV (4), Physics IV (4), Religious Education IV (4)‡, Scripture IV (4)‡, Sociology IV (4), Zoology IV (4).

The following considerations should be kept in view by students in considering their choices of subjects in the Senior Pass Division in Arts and Science:

1. Strict regard must be had for the prescription of prerequisites for the various subjects at the opening of the respective departmental announcements.

2. The Committee on Students' Courses will expect that in the main the subject elected in Group I above will be carried forward in Group II, or, in other words, that a reasonable degree of sequence will be observed.

3. It is permissible, however, in connection with either one or both of Groups I and II to substitute, subject to the approval of the Committee on Students' Courses, for four units of work there set down, four units from the Junior Division, such as, for example, the elementary work in a science or a language not already taken.

4. A student who desires to qualify for the degree of Bachelor of Science in the General Course, must, at the end of the Senior Division, have completed Science courses of the weight of at least thirty-two units, with at least ten units in each of two sciences. If he does not meet this requirement with respect to the Science content of his course, but has otherwise regularly completed the work of the Junior Division and the Senior Pass Division he will receive the degree of Bachelor of Arts in the General Course.

Senior Honors Division in Arts

A student may be admitted to the Senior Honors Division in Arts who has fully completed the forty required units of credit in the Junior Division in Arts and Science upon an approved curriculum.

A student who, at the close of two years in the Junior Division, has not qualified to enter the Senior Honors Division, may after one year's work in the Senior Pass Division, transfer to the Senior Honors Division provided he has by that time—

*English IIIA may be taken only with Mathematics IIIA.

†Mathematics IIIA may be taken only with English IIIA.

‡Of Religious Education III and Scripture III only *one* may be taken. Similarly of Religious Education IV and Scripture IV only *one* may be taken.

1. Completed forty units of credit in the Junior Division upon an approved curriculum and sixteen units of credit in the Senior Pass Division.

2. Obtained at least 67% on each of two subjects (representing eight units of credit) of Group I of the Senior Pass Division, which subjects he will be permitted to elect in connection with further work in the Senior Honors Division.

The work of the Senior Honors Division in Arts comprises the following courses from which work must be completed representing in the aggregate forty-eight units of credit. This work must be chosen subject to the restrictions set out below and the requirements with regard to prerequisite courses found at the opening of the respective departmental announcements. The Roman numeral after the name of a subject indicates the year of a student's course in which it is normally taken and the Arabic numeral in parentheses thereafter the value of the subject in units of credit towards a degree.

Group I (from which work of the value of sixteen units must be completed)—

Biblical Greek III (4), Economics III (4), English III (4), French III (4), German III (4), Greek III (4), Hebrew III (4), History III (4), Latin III (4), Mathematics III (4), Philosophy III (4), Religious Education III (4)*, Scripture III (4)*, Sociology III (4).

A student may not continue in the Senior Honors Division who at the end of one annual session has not completed sixteen units of work from Group I and who has not as well obtained at least 67% on each of two subjects representing eight units of credit, which subjects he proposes to elect in connection with his further work in the Senior Honors Division.

Group II (from which work of the value of thirty-two units must be completed, consisting of a sixteen-unit sequence in each of two subjects in which the student has obtained already at least 67% in connection with his work of Group I.)

Economics IV H (8), Economics V (8);
 English IV H (8), English V (8);
 French IV H (8), French V (8);
 German IV H (8), German V (8);
 Greek IV H (8), Greek V (8);
 Hebrew IV H (8), Hebrew V (8);
 History IV H (8), History V (8);
 Latin IV H (8), Latin V (8);
 Mathematics IV H (8), Mathematics V (8);
 Applied Mathematics IV H (4), Applied Mathematics V (4);
 Philosophy IV H (8); Philosophy V (8).

Upon completion of the above course the student will receive the degree of Bachelor of Arts with Honors.

Fourth Year in Arts—Old Curriculum

Students who have standing of three years in Arts on the old curriculum in either the General Course, a Group Course, the Course in Philosophy, the Course in Mathematics and Physics or one of the divisions of the Course in Natural and Physical Science will be permitted during the session 1925-1926 to complete the requirements for the B.A. degree upon the old curriculum as laid down on pages 24-25 of the 1924-1925 Arts and Science Calendar.

*Of Religious Education III and Scripture III only *one* may be taken.

I—MASTER OF ARTS

The following are the requirements for the Degree of Master of Arts (M.A.):

1. A candidate for the degree of Master of Arts shall hold the degree of Bachelor of Arts from the University of Manitoba or an equivalent degree from this or another recognized University.

2. Two subjects, not necessarily in different departments, shall be taken. One of these shall be designated as the major subject and special attention shall be devoted to it. It shall be a subject which the student has already pursued in the Third and Fourth Years of his undergraduate course. The minor subject shall be selected from a group related to the major subject. Not more than one-third of the student's time should be devoted to the minor subject.

3. The student shall submit a satisfactory thesis on some topic connected with his major subject.

4. The student shall pursue his work under the direction of two or more instructors of whom at least one shall be a member of the University Faculty. Recommendations with regard to Major and Minor courses and subject of thesis shall be drawn up by the departments immediately concerned after consultation with the candidate and such recommendation shall be submitted for final approval to the standing committee of the General Faculty Council on Post-Graduate Studies.

5. The minimum period spent in study for the M.A. degree shall be one academic year for students giving their whole time to the work. The minimum period for students not giving their whole time to M.A. work shall be two academic years, except in the case of students who attend a summer session in graduate work at some institution, acceptable to the Departments concerned, when the minimum time may be reduced to one year on recommendation of those Departments. Students required to take two years for this degree must receive standing on at least one-third of their work for the degree before entering upon their final year. The library conditions under which extra-mural students pursue their work shall be satisfactory to the Departments concerned.

6. The committee which shall pass upon the merits of the thesis shall consist of the instructors under whose direction the candidate's work has been performed, and at least one other recommended by the Committee on Post-Graduate Studies. The candidate shall pass such written examinations at such times and under such conditions as the committee may decide, and also undergo a final oral examination and public defence of the thesis, conducted by the committee.

7. The thesis shall be submitted at least ten days before the time of the oral examination. At least four printed or typewritten copies are required, three of which shall be deposited in the Library. It is desirable that uniformity in style, format, etc., be observed and in reference to these matters the candidate should consult the secretary of the Committee on Post-Graduate Studies.

For the present the course of study in any department for the M.A. degree will in the main be outlined on request by the instructors in that department, and adapted to suit the needs, capabilities and previous training of the applicant. Application for formal registration should be made to the Secretary of the Committee on Post-Graduate Studies. A limited number of M.A. courses are prepared in advance, and these are listed along with the undergraduate courses of the same department elsewhere in this Calendar.

CURRICULA IN SCIENCE

The University of Manitoba confers two degrees in Science, viz., Bachelor of Science (B.Sc.) and Master of Science (M.Sc.).

I—BACHELOR OF SCIENCE

Matriculation

The requirements for Matriculation for Science are set forth in detail in the Matriculation Calendar. No applicant may be received as a regular student of the Junior Division in Arts and Science who carries more than one condition from Matriculation (the work of Grades IX, X and XI in the High Schools as prescribed for University entrance.) Every applicant, moreover, presenting himself for admission with a condition from Matriculation will be subject to such limitation of his first session's course in the Junior Division as may be ordered by the Committee on Student's Courses. The rule regarding prerequisites may also debar him from taking a Junior Division course in any subject before the Matriculation course in that subject or in any other judged to be prerequisite, has been completed. Students who have fully completed courses recognized by the Department of Education for purposes other than University entrance, such as the Normal School Entrance Course or the Practical Arts Course, and whose deficiencies on the Matriculation course do not exceed two conditions, may be accepted as students of the Junior Division subject to such limitation of their first session's program in the Junior Division as may be ordered by the Committee on Student's Courses and with the requirement of approved concurrent instruction in the Matriculation work as yet uncompleted.

Undergraduate Course

A student who has fulfilled the requirements for Arts Matriculation may proceed to the Pass or General Bachelor of Arts degree by completing satisfactorily, subject to the rules and regulations set forth hereafter, forty units* of credit in the Junior Division in Arts and Science and thirty-two units of credit in the Senior Pass Division in Arts and Science. He may proceed to the Honors Bachelor of Arts Degree by completing satisfactorily, subject to the rules and regulations set forth hereafter, forty units of credit in the Junior Division in Arts and Science and forty-eight units of credit in the Senior Honors Division of Arts. The work for the Pass or General degree is normally done in four annual sessions and that for the Honors degree in five, two being given to the Junior Division and two or three, as the case may be, to the Senior Division.

Junior Division in Arts and Science

The work of the Junior Division in Arts and Science comprises the following courses from which work must be completed by the student proceeding to the Bachelor of Science degree, representing, in the aggregate, forty units of credit. This work must be chosen subject to the restrictions

*A unit is a body of work to which is assigned for instructional purposes one hour of lecture or other class room exercise per week or one continuous laboratory period of two or three hours per week, throughout an entire session, or the equivalent.

set out below and the requirements with regard to prerequisite courses found at the opening of the respective departmental announcements. The Roman numeral after the name of a subject indicates the year of a student's course in which it is normally taken and the Arabic numeral in parentheses thereafter the value of the subject in units of credit towards a degree.

FOR STUDENTS PROCEEDING TO THE BACHELOR OF SCIENCE DEGREE IN THE GENERAL COURSE

Required Subjects (totalling twenty-four units)—

1. English I (4), English II (4).
2. Mathematics I (4).
3. French I (4), French II (4); *or*
German I (4), German II (4); *or*
Latin I (4), Latin II (4); *or*
Greek I (4), Greek II (4).

(The language elected under 3 must be a language already taken for Matriculation credit.)

4. History II (4)

Elective Subjects (from which work of the value of sixteen units must be completed).

(The language taken in 3 above is of course excluded from election here.)

Biblical Greek I (4), Biblical Greek II (4);
French I (4), French II (4);
German I (4), German IA (4), German II (4)*;
Greek I (4), Greek IA (4), Greek II (4)*;
Hebrew I (4), Hebrew II (4);
Icelandic I (4), Icelandic II (4);
Latin I (4), Latin II (4);
History I (4).
Astronomy II (2).
Botany II (2);
Chemistry I (4), Chemistry II (4), Chemistry IIA (5)*;
Drawing I (2)†.
Geology II (2);
Mathematics IA (2), Mathematics II (4);
Physics I (4), Physics IA (4);
Zoology II (2), Zoology IIA (5);
Economics II (2);
Ethics II (2);
Logic II (2).
Psychology II (2);

FOR STUDENTS PROCEEDING TO THE BACHELOR OF SCIENCE DEGREE IN THE HONORS COURSE

Required Subjects (totalling eighteen units of credit)

1. English I (4).
2. Mathematics I (4), Mathematics IA or IIA (2).
3. Physics I (4), Chemistry I (4) or Chemistry II (4).

Elective Subjects (totalling twenty-two units of credit and chosen on the following plan)—

1. Language courses totalling eight units—
Either French I (4) and German IIA (4); *or*
German I (4) and French IIA (4).

*Only *eight* units may be taken in German or Greek and only *nine* units in Chemistry.

†A student who elects Drawing I must also take Mathematics IA.

2. Work of the value of two units from the following—
History IIA (2), English IIA (2), Psychology II (2),
Economics II (2).
3. Work of the value of twelve units from the following (either
Chemistry II or Physics II being required)—
Mathematics II (4), Physics II (4), Chemistry II (4), Botany
II (2), Zoology II (2), Geology II (2), Astronomy II (2).

The following considerations should be kept in view by students in considering their choices of subjects in the Junior Division:

1. Strict regard must be had for the prescription of prerequisites for the various subjects at the opening of the respective departmental announcements.

2. The Committee on Students' Courses will expect that unless in exceptional cases a subject will not be elected in any year other than the one in which, according to its designation, it is "normally taken."

3. A departure from this rule is found in the practice of recognizing a student's right in either year of the Senior Pass Division or in the first year of the Senior Honors Division to elect as *one* of his four subjects a subject of the Junior Division, provided of course that he secures the approval of the Committee on Students' Courses.

4. A student desiring to qualify for entrance upon the course for the degree in Civil Engineering or in Electrical Engineering, may, if fully matriculated, do so, upon completing twenty units in the Junior Division in Arts and Science upon the following course: English I, Mathematics I, Mathematics IA, Drawing I, Chemistry I and one of French I, German I, Latin I, Greek I. The language elected must have been taken for Matriculation.

5. A student desiring to qualify for entrance upon the course for the degree in Medicine, may, if fully matriculated (with a course involving Latin and Physics) do so upon completing forty units in the Junior Division in Arts and Science upon the following course: English I, English II; Mathematics I; German IA, German I or German II*; Botany II; Chemistry I; Chemistry IIA; Physics IA; Zoology IIA.

6. A student who desires to qualify for the degree of B.Sc. in the General Course must at the end of the Senior Division have completed Science courses of the weight of at least thirty-two units with at least ten units in each of two Sciences. It is required that he elect either Physics I or Chemistry I in the Junior Division and should make additional Science elections in view of the requirement above.

Senior Pass Division in Arts and Science

A student may be admitted conditionally to the Senior Pass Division in Arts and Science who has completed at least thirty-six units of credit in the Junior Division upon an approved curriculum. In case he is permitted to enter without having completed in full the forty required units of the Junior Division this fact will be taken into account in approving his course for the first academic year of his work in the Senior Division.

*If German has been taken for Matriculation, French IA with French I or French II should be substituted for the German courses here indicated.

The work of the Senior Pass Division in Arts and Science comprises the following courses from which work must be completed representing in the aggregate thirty-two units of credit. This work must be chosen subject to the restrictions set out below and the requirements with regard to prerequisite courses found at the opening of the respective departmental announcements. The Roman numeral after the name of a subject indicates the year of a student's course in which it is normally taken and the Arabic numeral in parentheses thereafter the value of the subject in units of credit towards a degree.

Group I (from which work of the value of sixteen units must be completed)—

Biblical Greek III (4), Botany III (4), Chemistry III (4), Economics III (4), English III (4), English IIIA (2)*, French III (4), Geology III (4), German III (4), Greek III (4), Hebrew III (4), History III (4), Latin III (4), Mathematics III (4), Mathematics IIIA (2)†, Philosophy III (4), Physics III (4), Religious Education III (4)‡, Scripture III (4)‡, Sociology III (4), Zoology III (4).

Group II (from which work of the value of sixteen units must be completed)—

Biblical Greek IV (4), Botany IV (4), Chemistry IV (4), Economics IV (4), English IV (4), French IV (4), Geology IV (4), German IV (4), Greek IV (4), Hebrew IV (4), History IV (4), Latin IV (4), Mathematics IV (4), Philosophy IV (4), Physics IV (4), Religious Education IV (4)‡, Scripture IV (4)‡, Sociology IV (4), Zoology IV (4).

The following considerations should be kept in view by students in considering their choices of subjects in the Senior Pass Division in Arts and Science:

1. Strict regard must be had for the prescription of prerequisites for the various subjects at the opening of the respective departmental announcements.

2. The Committee on Students' Courses will expect that in the main the subjects elected in Group I above will be carried forward in Group II, or, in other words, that a reasonable degree of sequence will be observed.

3. It is permissible, however, in connection with either one or both of Groups I and II to substitute, subject to the approval of the Committee on Students' Courses, for four units of work there set down, four units from the Junior Division, such as, for example, the elementary work in a science or a language not already taken.

4. A student who desires to qualify for the degree of Bachelor of Science in the General Course must, at the end of the Senior Division, have completed Science courses of the weight of at least thirty-two units, with at least ten units in each of two sciences. If he does not meet this requirement with respect to the Science content of his course, but has otherwise regularly completed the work of the Junior Division and the Senior Pass Division he will receive the degree of Bachelor of Arts in the General Course.

*English IIIA may be taken only with Mathematics IIIA.

†Mathematics IIIA may be taken only with English IIIA.

‡Of Religious Education III and Scripture III only *one* may be taken. Similarly of Religious Education IV and Scripture IV only *one* may be taken.

Senior Honors Division in Science

A student may be admitted to the Senior Honors Division in Science who has fully completed the forty required units of credit in the Junior Division in Arts and Science upon a curriculum approved for the purpose.

Group I (from which work of the weight of sixteen units must be completed)—

Astronomy III (4)*, Botany III (4), Chemistry III (4), Geology III (4), Mathematics III (4), Physics III (4), Zoology III (4).

A student may not continue in the Senior Honors Division who at the end of one annual session has not completed sixteen units of work from Group I and who has not as well obtained at least 67% on each of two subjects representing eight units of credit, which subjects he proposes to elect in connection with his further work in the Senior Honors Division.

Group II (from which work of the weight of thirty-two units must be completed):

Biochemistry IV (8), Biochemistry V†;
Botany IV H (8), Botany V;
Chemistry IV H (8), Chemistry V;
Geology IV H (8), Geology V;
Mathematics IV H (8), Mathematics V;
Physics IV H (8), Physics V;
Physiology IV (8), Physiology V†;
Zoology IV H (8), Zoology V.

Upon completion of the above course the student will receive the degree of Bachelor of Science with honors.

Fourth Year in Science—Old Curriculum

Students who have standing of three years in Science on the old curriculum will be permitted during the session 1925-1926 to complete the requirements for the B.Sc. degree on the course for the Fourth Year laid down on page 29 of the 1924-1925 Arts and Science Calendar.

*If Astronomy III is elected, Mathematics III and Physics III must also be taken.

†A student who elects either Biochemistry or Physiology is expected to elect the other unless by special arrangement another combination is permitted.

II—MASTER OF SCIENCE

The following are the requirements for the Degree of Master of Science (M.Sc.):

1. The candidate for the degree of Master of Science:

(a) Shall hold the degree of B.Sc. of the University of Manitoba or possess such qualifications as the Committee on Post-Graduate Studies of the General Faculty Council after reference to the Science Committee of the University Faculty of Arts and Science, may deem to be the equivalent of this degree.

(b) Shall pass an examination in two courses of study, one closely related to the subject of his thesis and the other in an allied subject, and all his work shall be done under the direction of at least two members of the University Faculty of Arts and Science. The thesis and main course of study shall be taken in a department in which the student has studied during the Third and Fourth Years of his undergraduate course; the other may be taken in the same or an allied department.

(c) Shall submit a satisfactory thesis based upon original work done under the direction of the department in which he has elected to do his research.

(d) Shall have completed at least one year's graduate work in one or more of the following departments of the University of Manitoba: Mathematics, Physics, Chemistry, Geology, Botany, Zoology, Physiology, Bio-Chemistry.

A graduate of this University may be permitted to meet the requirements of this clause by courses of study taken in another University if such work be approved by the Committee on Post-Graduate Studies after reference to the Science Committee of the University Faculty of Arts and Science.

2. (a) The candidate shall make written application to the secretary of the Committee on Post-Graduate Studies for permission to enter on a course leading to this degree. The outline of this course, drawn up in consultation with the departments concerned, must receive the approval of the Committee.

(b) The nature of the thesis shall subsequently receive the approval of the Committee on Post-Graduate Studies after reference to the Science Committee of the University Faculty of Arts and Science.

3. For the examination of each candidate the examining board shall consist of the instructors under whose direction the work has been performed and one other recommended by the Committee on Post-Graduate Studies.

4. The thesis in its final form shall be submitted not later than the 25th of April in any year to ensure the conferring of the degree at the Annual Convocation of that year. At least four printed or typewritten copies of the thesis shall be submitted by the candidate. One of these shall subsequently be deposited in the University Library. It is desirable that uniformity in style, format, etc., be observed and in reference to these matters the candidate should consult the Secretary of the Committee on Post-Graduate Studies.

COURSES IN ARTS AND SCIENCE IN DETAIL

DEPARTMENT OF BIOCHEMISTRY

A. T. Cameron, M.A., B.Sc., F.I.C., F.R.S.C.....	<i>Professor</i>
Frank D. White, Ph.D., A.R.T.C., F.I.C.....	<i>Lecturer</i>
H. D. Kitchen, M.D., C.M.....	<i>Lecturer</i>

Third Year Science (Combined B.Sc., M.D.)—Courses 1, 2; 5, 6.

Fourth Year Science (1925-26)—Courses 9, 10.

Fifth Year Science (Combined B.Sc., M.D.)—Courses 9, 10.

Biochemistry IV (First offered in 1926-27)—Courses 1, 2; 3, 4; 7, 8.

Biochemistry V (First offered in 1927-28)—Courses 9, 10.

N.B.—For key to system of numbering courses, see page 3.

1, 2. Biochemistry. The general chemistry of animal and plant tissues. Enzyme action. Composition of food-stuffs; proteins, fats, carbohydrates, vitamins, etc. Composition of digestive juices. Digestion of food-stuffs. Absorption of the products of digestion. Chemistry of blood; haemoglobin and its derivatives. Chemistry and physical chemistry of respiration. Assimilation of food-units (glucose, amino-acids, fats, etc.) in the animal body. Catabolism. Autolysis. Inanition. Composition of different tissues. Chemistry of the endocrine glands. Excretion; chemistry of the excreta. Metabolism from the viewpoint of energy exchanges. Diet. Abnormal metabolism of glucose, fats, uric acid, etc. Acidosis. Inborn errors of metabolism. Physical chemistry of living processes, etc. Textbooks: Hawk's Practical Physiological Chemistry, 8th Edition (Blakiston, Philadelphia); Robertson's Principles of Biochemistry (Lee and Febiger, Philadelphia and New York). Reference books, Mathew's Physiological Chemistry (Wood, New York); Barker's Endocrinology and Metabolism (Appleton); and other special books and articles as directed during the course.

For first year students of Medicine (new regulations), third year students of Science (combined B.Sc., M.D. course), and fourth year honor students of Science. Two lectures a week, both terms.

3, 4. Biochemistry. A special course for fourth year honor students of Science, including more intensive study of certain subjects in course 1, 2, especially the nature of enzymes and of enzyme actions, comparative metabolism in different animals, and comparison with the chemical processes in plants, chemical actions produced by bacteria. Text-books and reference books as for course 1, 2. One lecture a week, both terms.

5, 6. Practical Biochemistry. Detection of the elements in animal and plant tissues. Study of enzyme action. Properties of carbohydrates, fats and proteins, and their derivatives. Methods of estimation of sugars, fats, amino-acids, etc. Study of the digestive juices and their action. Composition of food-stuffs. Composition of muscular and nervous tissue

and of blood. Blood analysis. Composition of normal and pathological urine. Measurement of respiratory quotients and basal metabolism, etc. Textbooks: Hawk's Practical Physiological Chemistry, 8th Edition (Blakiston, Philadelphia). Reference books: Plimmer's Practical Organic and Biochemistry (Longman's, London and New York); Myer's Practical Chemical Analysis of Blood (C. V. Mosby Co., St. Louis). For first year students of Medicine (new regulations), and Third Year students of Science taking the combined B.Sc., M.D. course. Two three-hour periods per week, both terms.

7, 8. Practical Biochemistry. As course 5, 6, the non-medical parts of the course being considerably extended and emphasized. For fourth year honor students of Science. About 13 hours per week, both terms.

9, 10. Advanced Biochemistry, for fourth year (old regulations), and fifth year honor students of Science, who have completed courses 1, 2; 3, 4, and 7, 8, and fifth year students of the combined B.Sc., M.D. course. The course will consist of special lectures and colloquia, and study of methods employed in investigations of metabolism problems, etc. One-half of the students available time, 16 to 20 hours per week, will be spent in the Department. In the combined B.Sc., M.D. course students electing Biochemistry will take a course in Physical Chemistry in part of the time allotted to Biochemistry.

11, 12. Research Work. The laboratories are open daily from 9 a.m. to 6 p.m. (and, by arrangement, till 11 p.m.) for the prosecution of original research.

Breakages. A deposit of \$5.00 is paid to the Registrar at the beginning of each session, and all breakages will be made good from this.

Fourth Year Science (Honor) 1926-27: Courses 1, 2; 3, 4; 7, 8.

Third Year Science (combined B.Sc., M.D. course, old regulations):
Courses 1, 2; 5, 6.

Fourth Year Science (old regulations), 1925-26: Courses 9, 10.

Fifth Year Science (Honor), 1927-28: Courses 9, 10.

DEPARTMENT OF BOTANY

A. H. Reginald Buller, B.Sc., Ph.D., D.Sc., LL.D., F.R.S.C. *Professor*

H. F. Roberts, B.A., M.Sc., F.A.A.S. *Assistant Professor*

C. W. Lowe, M.Sc. *Lecturer*

Ida Kirk Scott, B.A., B.Sc. *Demonstrator*

Botany II A—Courses 1, 2; 3, 4.

Botany II—Courses 1, 2; 3a, 4a.

Botany III—Courses 5, 6, 7, 8. (Prerequisite, Botany II or equivalent).

Fourth Year Arts—Courses 9, 10; 11, 12.

Fourth Year Science—Courses 15, 16; 17, 18; 19, 20.

First Year Pharmacy (Diploma Course)—Courses 1, 2; 3, 4.

Second Year Pharmacy (Degree Course)—Courses 1, 2; 3, 4.

Third Year Pharmacy (Degree Course)—Courses 9, 10; 11, 12.

N.B.—For key to system of numbering courses, see page 4.

1, 2. General Botany. An introductory lecture course covering, among other topics, the following: Classification of objects; comparison of living and non-living matter; the differences between animals and plants. The structure of the seed and contents of its cells; the seeds of the pea, bean, castor oil plant, and date palm; the grains of wheat and corn; the conditions for germination, and the phenomena accompanying it; the exhaustion of the reserve food-stuffs. The seedling: its structure, mode of development and relations with external conditions; the theory of irritability; geotropism, heliotropism and hydrotropism; the further development of shoot and root. The general morphology of the plant body, and the principal modifications of the stem, leaf and root; buds, grass-haulms, stolons, runners, rhizomes, corms, tubers, bulbs, spines and thorns, tendrils, cladodes, phyllodes, compound leaves, etc.; the growing point of stems; the origin of new leaves and buds. The cell and the cell theory; protoplasm as the physical basis of life; protoplasmic movement; turgidity; the structure and division of the nucleus; the origin of new cells by cell division. The internal morphology of the stem of monocotyledons and of dicotyledons; the functions of vascular bundles; the cambium and the secondary thickening of stems and roots; the secondary protective tissues, cork and bark. The leaf as an organ for carrying on the process of photosynthesis; the epidermis, including hairs and stomata, vascular bundles, mesophyll, and intercellular spaces; photosynthesis (carbon assimilation); the nature and function of chlorophyll corpuscles and of chlorophyll; the evacuation of the products of photosynthesis and their ultimate fate. The root: its root-tip, root hairs, and mode of branching; the growing point. Climbing plants; stem-climbers and tendril climbers; the physiology of climbing; lateral geotropism, reactions to the stimulus of contact. The elementary facts in the nutrition of the plant; the nature and sources of the raw food materials; the necessary chemical elements and their mode of absorption; water cultures; the constitution of the soil; the transpiration current; transpiration; photosynthesis; the products of metabolism, together with their distribution, storage, and utilization; respiration contrasted with photosynthesis. Carnivorous plants; *Drosera*, *Utricularia*, *Sarracenia*, *Dionaea* and *Nepenthes*. The classification of plants, including the main sub-divisions of the vegetable kingdom; the morphology and physiology of the following *Thallophyta*: *Protococcus* (*Pleurococcus*), *Saccharomyces* (yeast), *Bacteria*, *Spirogyra*, *Fucus*, *Mucor*, *Penicillium*, *Psalliota campestris* (mushroom). Alcoholic fermentation; *Bacteria* as the cause of nitrogen fixation, of fermentative processes, of putrefaction, and of disease. The *Bryophyta*, illustrated by a moss plant; the *Pteridophyta*, illustrated by a fern plant; alternation of generations. Reproduction in the *Phanerogamia*; the flower and its chief modifications in structural plan; the minute structure of the pollen grain and of the ovule; Pollination and its agents; floral mechanisms as illustrated by the Lady Slipper Orchid, *Primula*, *Salvia*, etc. Fertilization of the ovule; development of seeds and fruits; the plum, strawberry, orange, cocoanut, etc.; dispersion of seeds and fruits; the nature of pine cones, both male and female. Two hours a week.

3, 4. Laboratory Course in General Botany. This course is designed to accompany course 1, 2. One practical period of two hours per week.

3a, 4a. Laboratory Course in General Botany. This course for students in Arts is designed to accompany courses 1, 2. One practical period of two hours fortnightly.

5, 6. Morphology and Physiology of the Flowering Plant. A lecture course of two hours per week.

7, 8. Laboratory Course on Morphology and Physiology of the Flowering Plant. Four hours per week.

9, 10. Systematic Botany of the Cryptogamia and Phanerogamia. A detailed treatment of the Thallophyta, Bryophyta, Pteridophyta, and the facts of reproduction in the Phanerogamia. A lecture course of three hours per week.

11, 12. Laboratory Course in Systematic Botany. This course is designed to accompany Course 9, 10. Five hours per week.

14. Evolution and Inheritance. A broad treatment of the doctrine of Evolution, Mendel's Laws of Inheritance, etc. One hour per week.

15, 16. Special Courses. Advanced lectures on Morphology, Physiology, Ecology, Palaeobotany, Inheritance, etc. Four hours per week.

17, 18. Laboratory Course for Advanced Botany. This course is designed to accompany Courses 14, 15 and 16. Nine hours per week.

19. Genetics. This course is designed to deal with the principles of genetics, especially in relation to plant life. It involves a study of the laws underlying inheritance, the causes of variation, and the physical basis of heredity. The practical features of plant breeding are dealt with in detail.

20. Advanced Plant Physiology. In this course, intended for those who have completed the Courses 7 and 8, special problems in plant physiology, *e.g.* osmosis, transpiration, photosynthesis, are assigned to each student.

Students intending to take Fourth Year Botany in Arts or Third or Fourth Years in Science are expected to make themselves acquainted with the Canadian families of flowering plants during the preceding summer vacation. As many different species as possible should be collected and dried. The most suitable flora to consult is Gray's New Manual of Botany. Advice in respect to collecting, drying, mounting, and naming the specimens may be obtained from members of the botanical staff.

For students taking senior courses, at the beginning of the session, there will be several excursions to the prairie, woods, and river-side for the purpose of studying the algae, fungi, and flowering plants in relation to their environment.

The laboratory of the Department will be open and encouragement given to qualified students desiring to carry on research on some botanical problem.

TEXT BOOKS

Youngken: Pharmaceutical Botany; Sargent: Plants and their Uses; Bergen & Caldwell: Practical Botany; Strasburger: Text Book of Botany; Coulter, Barnes & Cowles: Text Book of Botany; R. C. Punnett: Mendelism; W. Lochhead: An Introduction to Heredity and Genetics.

DEPARTMENT OF CHEMISTRY

Matthew A. Parker, B.Sc., LL.D., F.I.C., F.C.I.C., F.R.S.C.	Professor
Henry P. Armes, B.Sc., Ph.D., F.C.I.C.	Assistant Professor
John W. Shipley, M.A., Ph.D., F.C.I.C., F.R.S.C.	Assistant Professor
Paul G. Hiebert, M.A., M.Sc., Ph.D.	Lecturer
Charles F. Goodeve	Demonstrator
M. Zaslavsky, B.Sc.	Demonstrator
Horace Brocklesby	Demonstrator
T. E. Holland, B.Sc., Helgi Johnson, N. O. Stein, E. W. Samson	Student Assistants

Chemistry I—Courses 1, 2; 41, 42.

Chemistry II—Courses 3, 4; 43, 44. (Prerequisite, Matriculation Chemistry or Chemistry I.)

Chemistry IIA*—Courses 5, 6; 45, 46. (Prerequisite, Grade XII Chemistry or Chemistry I.)

Chemistry III—Courses 7, 8; 49, 50. (Prerequisite, Chemistry II).

Chemistry IV—Courses 11, 12; 51, 52. (Prerequisite, Chemistry III).

Chemistry IVH—Courses 11, 12; 19, 20; 21, 22; 51, 52; 55, 56. (Prerequisite, Chemistry III).

Fourth Year Arts—Courses 7, 8; 11, 12; 53, 54.

Fourth Year Science—Courses 19, 20; two of 13, 14; 15, 16; 17, 18; and one of 57, 58; 59, 60.

First Year Pharmacy (Degree and diploma course)—Courses 3, 4; 41, 42.

Second Year Pharmacy (Degree and diploma course)—Courses 7, 8; 45, 46.

Third Year Pharmacy (Degree)—Courses 11, 12; 51, 52; 55, 56.

Fourth Year Pharmacy (Degree)—Courses 13, 14; 39, 40.

First Year Engineering—Courses 47, 48.

Fourth Year Electrical Engineering—Course 9.

*For students desiring standing for entrance to Medicine in two years.

N.B.—For key to system of numbering courses, see page 4.

The following lecture courses are given.

1, 2. Elementary Inorganic Chemistry. Fundamental principles of chemistry; elements and compounds; laws of combination; atoms and molecules; acids, bases, salts; properties of some common elements and their more important compounds. The subject is treated in an elementary way. Textbook recommended, McPherson & Henderson's *An Elementary Study of Chemistry*. Two hours per week lectures, and one hour tutorial.

3, 4. Inorganic Chemistry. Similar to course 1, 2, but more advanced, and deals with some of the more general subjects barely touched on in the elementary course. Three hours per week lectures. Textbook recommended, Smith's *General Chemistry for Colleges*, revised by Kendall.

5, 6. Inorganic and Organic Chemistry. The subjects dealt with are selected with regard to their importance for medical students. About half

of the course deals with inorganic and half with organic chemistry. Three hours per week lectures. Textbooks recommended, Smith's General Chemistry for Colleges and J. B. Cohen's Theoretical Organic Chemistry.

7, 8. Organic Chemistry. An introduction to the study of organic chemistry. General principles; fatty compounds; some typical carbocyclic and a few heterocyclic compounds. Two hours per week lectures. Textbook recommended, Perkin and Kipping's Organic Chemistry.

9. Electro-Chemistry. Theories and laws relating to practical applications of electro-chemical processes. Two hours per week first term. Textbook recommended, Allmand's Principles of Applied Electro-Chemistry.

11, 12. Physical Chemistry. Introduction to Physical Chemistry. Two hours per week lectures. Textbook recommended, Lincoln's Textbook of Physical Chemistry.

13, 14. Advanced Organic Chemistry. Subjects chosen with reference to literature available in the library. Two hours per week.

15, 16. Advanced Inorganic Chemistry. Chiefly descriptive inorganic chemistry; subjects chosen with reference to literature available in the library. Two hours per week.

17, 18. Advanced Physical Chemistry. A continuation of Course 11, 12. Two hours per week.

19, 20. History of Chemistry. A brief outline of the history of some of the more important discoveries and theories of chemistry. One hour per week throughout the session.

21, 22. Analytical Chemistry. A course on the principles of chemical analysis. One hour per week.

The following *laboratory* courses are offered:

41, 42. Practical Chemistry. Experiments illustrating general principles and the preparation and properties of substances studied in course 1, 2. One period of three hours per week.

43, 44. Practical Chemistry. Qualitative inorganic analysis and introductory quantitative analysis. Two periods of three hours per week.

45, 46. Practical Chemistry. Qualitative analysis; simple gravimetric and volumetric analysis; reactions of some organic substances; preparations. Two periods of three hours per week.

47, 48. Practical Chemistry. Quantitative analysis leading up to methods of water analysis, coal analysis, etc., of interest to engineering students. One period of three hours per week.

49, 50. Practical Chemistry. Preparation of organic compounds; quantitative inorganic analysis. Two periods of three hours per week.

51, 52. Practical Chemistry. Qualitative inorganic analysis; quantitative analysis. Two periods of three hours per week.

53, 54. Practical Chemistry. Qualitative inorganic analysis; quantitative analysis; preparation of organic compounds. Three periods of three hours per week.

55, 56. **Practical Chemistry.** Physico-chemical measurements.

57, 58. **Practical Chemistry.** Methods of organic analysis; organic preparations.

59, 60. **Practical Chemistry.** Methods of inorganic analysis; inorganic preparations.

Special students may be enrolled for the purpose of carrying on such advanced work as the equipment permits of, and special facilities will be given to those capable of engaging in research work.

Each student is supplied with such apparatus as may be required, with the exception of platinum wire and foil, laboratory towel, etc., which he must provide for himself.

A deposit of five dollars is paid to the Registrar at the beginning of each session, and all breakages will be made good out of this.

A record of all laboratory work must be kept in regulation report books. These are examined periodically during the session, and must be handed to the examiners in chemistry previous to the practical examination for the degree.

Attention is called to the regulation regarding practical work and reports on page 97.

DEPARTMENT OF CLASSICS

F. W. Clark, B.A., Ph.D.	<i>Professor of Latin and Greek</i>
W. M. Hugill, B.A.	<i>Assistant Professor of Latin and Greek</i>
H. L. Tracy, B.A., Ph.D.	<i>Lecturer in Greek and Latin</i>

Greek 1A—Courses 1, 2.

Greek 1—Courses 3, 4. (Prerequisite, Matriculation Greek or Greek 1A).

Greek II—Courses 5, 6, (Prerequisite, Greek I); or Courses 3, 4, (Prerequisite, Greek 1A).

Greek III—Courses 9a, 10a, 13, 14. (Prerequisite, Greek II).

Fourth Year Arts—Major—Courses 8, 9a, 10a, 11, 13, 14.

Minor: Courses 9a, 10a, 13, 14.

Graduate Courses—Courses 19, 20.

N.B.—For key to system of numbering courses, see page 4.

GREEK

1. Beginner's Greek Course. This course is intended for students who have not had the opportunity of taking Greek for Matriculation. The purpose is to prepare students as rapidly as possible for the reading of Greek. Gleason's Greek Primer (American Book Co.), Lessons I-XXXV. Four hours a week.

2. **Beginner's Greek Course.** Continuation of Course 1. Gleason's Greek Primer, Lessons LVIII-LXI, LXIV, LXVIII, LXIX, LXXI, LXXII; and Colson's Greek Reader (Macmillan Co.), selections from Parts I-IV. Four hours a week.

3. **Greek Authors.** Colson's Greek Reader (Macmillan Co.). Part VIII will be read. Easy sight translation. Four hours a week.

4. **Euripides.** Continuation of Course 3. The *Hecuba* (Bond and Walpole, Macmillan Elementary Classics), will be studied. The choral odes will be read in translation. Easy sight translation. Four hours a week.

5. **Plato.** *Apology* and *Crito*. (Dyer-Seymour, Ginn & Co.). Easy sight translation. Four hours a week.

6. **Homer.** *Iliad*, Books I, III, VI (Seymour, Ginn & Co.). Easy sight translation. Four hours a week.

7. **Xenophon.** Selections from the *Hellenica*, sections III-VI (Phillipotts, Oxford Press). Special topics for study on which lectures will be given: Xenophon's career; his place among the Greek historians; the scope and content of his writings. Two hours a week.

Private Reading for Fourth Year only, section II (as in prescribed text). (Not given in 1925-26).

8. **Aristophanes.** *Birds* (Merry, Oxford Press); *Clouds* (Bailey, Oxford Press). Study of the origin, structure and content of the Old Attic Comedy. Books valuable for reference: Moulton, Ancient Classical Drama; Haigh, Attic Theatre. Three hours a week.

9a. **Homer.** *Odyssey* I, VI, VII, VIII (1-235 and 385 to end), IX, Books XIII-XXIV will be studied in translation. Three hours a week.

9b. **Homer.** *Iliad* XIX, XXII, XXIV. To be studied in translation, Books XIII-XVIII, XX, XXI, XXIII. Three hours a week. (Not given in 1925-26).

10a. **Plato.** *Republic* I-IV, omitting I, 6-9, 13-15, 20-24; II, 17-21 and III, 1-11. Emphasis will be laid on the ethical and political content and its application to modern social and political problems. Sight translation. Three hours a week.

10b. **Demosthenes.** *Philippic* I and *Olynthiacs* I-III (Abbott and Matheson, Oxford Press). Three hours a week. (Not given in 1925-26).

11. **Herodotus.** Book VII, from Chapter 201 to the end, and Book VIII. The *Persae* of Aeschylus will be studied in translation. Three hours a week.

12. **Greek Tragedy.** Sophocles, *Oedipus Tyrannus*. The choral odes will be read in translation. History of Greek Tragedy and comparative study of the three great tragedians. Two hours a week. (Not given in 1925-26).

13. **Greek History.** Bury's *History of Greece*, chapters IV (p. 180) to IX. Lectures and readings on the period from 500 B.C. to 431 B.C. The Persian Wars, the development of the democracy in Athens and the growth of the Athenian Empire. Special topics and papers will be assigned. One hour a week.

14. Greek History. Continuation of 13, involving a study of Bury's *History of Greece*, chapters X to XVII, omitting XV. Lectures and readings on the period from 431 B.C. to 338 B.C. The Peloponnesian war, the Spartan and Theban hegemonies, the rise of Philip of Macedon and the campaigns of Alexander. Special topics and papers will be assigned. One hour a week.

15. Greek Antiquities. The public buildings of Athens will be studied from descriptions and illustrations of their remains. This will be made the starting point for a broader consideration of Greek architecture and art. Assigned readings and reports. One hour a week. (Not given in 1925-26).

16. Greek Antiquities. Continuation of 15, involving a study of the private life, education, religion and national games of the Greeks. Assigned readings and reports. One hour a week. (Not given in 1925-26).

17. Greek Poetry in Translation. The following works will be studied:

Aeschylus—*Prometheus Bound* (Golden Treasury Series).

Sophocles—*Electra*, *Antigone* (Jebb).

Euripides—*Electra* (Murray), *Bacchae* (Way).

Aristophanes—*The Frogs* (Rogers). One hour a week. (Not given in 1925-26).

18. Greek Prose Authors in Translation. The following works will be studied: Thucydides, II, 34-54; VII (Jowett). Plato, *Euthyphro*, *Phaedo* (Jowett). Aristotle, *Ethics* I (Williams); *Poetics* (Cooper). Theophrastus, *Characters* (Jebb). Lucian, *Timon*, *A True Story* (Harmon in Loeb Library). One hour a week. (Not given in 1925-26).

19. Thucydides.

20. Aristophanes.

LATIN

Latin I—Courses 1, 2; 3, 4. (Prerequisite, Matriculation Latin).

Latin II—Courses 5, 6; 7, 8. (Prerequisite, Latin I).

Latin III—Courses 13, 14 and either 9, 10 or 11, 12. (Prerequisite, Latin II).

Fourth Year Arts—Major—Courses 9, 10; 15, 16, 17, 18; 19, 20.

Minor—Courses 17, 18 and either 9, 10 or 19, 20.

General—Courses 17, 18.

Graduate Courses—Courses 23, 24; 25, 26.

1, 2. Prose Composition. Latin Prose by Pilsbury (Clarendon Press). First Term: the odd numbered sentences of the exercises marked A and B in chapters I-XI. Second Term: the odd numbered sentences of exercises A and B in chapters XII-XXVI. One hour a week.

3, 4. Authors and Sight Translation. First term: Cicero, *In Catilinam* I and *Letters* 1, 6, 8, 12, 16, 19, 20, 21, as published in Selections from Cicero, edited by Bennett (Allyn and Bacon). Second Term: Virgil, Selections from *Aeneid* I-III, as edited by Freeman and Bailey in the Clarendon Series (Oxford). Three hours a week.

5, 6. Prose Composition. Latin Prose by Pilsbury (Clarendon Press). First Term: the odd numbered sentences of the exercises marked A and B in Chapters XXVII-XXXIII, and XXXVI-XXXVIII. Second Term: the odd numbered sentences of the exercises marked A and B in chapters XL, XLI, XLIII; and the following exercises marked C, complete: 12, 18, 31, 35, 47, 53, 62, 71, 95, 101, 112, 123. One hour a week.

7, 8. Authors and Sight Translation. First Term: Selections from Livy XXI-XXII, as edited by Jackson in the Clarendon Series (Oxford). Second Term: (a) Horace, *Odes*, Book I (Page, Macmillan's Elementary Classics); *Odes*, 1, 2, 3, 9, 11, 12, 14, 22, 24, 34, 37, 38. (b) Catullus (Macmillan, Junior Latin Series, Oxford Press); Poems, 1, 3, 4, 9, 11, 13, 31, 35, 38, 44, 64 (ll. 1-303), 73, 84, 85, 96. Three hours a week.

(Students who elect Latin as a subject in the Third and Fourth Years should provide themselves with: A Latin Dictionary (Lewis' *Latin Dictionary for Schools*; Oxford Press), A Latin Grammar (D'Ooge's *Concise Latin Grammar*, Ginn & Co.), *Latin Literature* (Mackail; Murray), A Classical Atlas (*Atlas of Classical Geography*, Everyman's Library).

9, 10. Prose Composition and Sight Translation. Translation into Latin of representative passages from English authors. Practice in sight translation. One hour a week.

11. Roman Antiquities. For description of this course see Course 19. One hour a week.

12. Latin Literature. For description of this course see Course 20. One hour a week.

13. Authors and Sight Translation. (a) Pliny, Select Letters by Prichard and Bernard (Oxford Press). Letters 1, 2, 3, 8, 12, 14, 17, 23, 25, 27, 29, 31, 32, 35, 39, 41, 61, 69, 70, 71, 73, 81, 90, 91. (b) Martial, Select Epigrams, Volume I, by Bridge and Lake (Oxford Press). I: 2, 3, 10, 13, 15, 16, 18, 29, 32, 38, 47, 52, 66, 75, 79, 98, 117; II: 5, 11, 16, 30, 41, 69, 77, 90; III: 12, 14, 15, 19, 38, 44, 52, 60, 63; IV: 2, 3, 8, 15, 18, 37, 41, 44, 86; V: 8, 9, 25, 34, 43, 47, 49, 56, 58, 79; VI: 8, 17, 35, 57, 59, 86. Three hours a week.

14. Authors and Sight Translation. (a) Cicero: *De Senectute* (Reid; Cambridge Press); (b) Virgil: Selections from Books 5 and 6, as edited by Alington in the Clarendon Series (Oxford Press). Three hours a week.

15. Plautus. *Captivi* and *Trinummus* (Morris, Ginn & Co.). General characteristics of Roman comedy and comparison of Plautus with Terence. Two hours a week. For private reading: Terence, *Adelphi* (in translation).

16. Tacitus. *Annals*, XIV, 1-39; XV, 38-74 (Furneaux and Pitman, Oxford Press) and *Agricola* (Furneaux and Anderson, Oxford Press). Method and importance of Tacitus as an historian; scope and content of his writings; his style. Two hours a week. For private reading in translation: *Annals*, XII; XIII, 1-24; XIV, 48-65; XVI, 18-35 (Ramsay's Translation).

17. Cicero. Selected Letters (Abbott, Ginn & Co.). Nos. 1, 7, 8, 9, 11-15, 20, 21, 25-27, 31, 33, 34, 37-45, 47-50, 60, 63, 64, 73-78, 86, 90-92, 95. Standard works such as Boissier, Cicero and his Friends, and Strachan-Davidson's and Petersson's biographies of Cicero will be used for reference. Three hours a week. For private reading: *De Amicitia* (Shuckburgh's Translation in the Golden Treasury Series).

18. **Virgil.** *Aeneid*, VI, VII, XII (Sidgwick, Cambridge Press). *Aeneid* VIII, IX and *Georgic* I will be studied in translation (Rhoades, *Poems of Virgil in English Verse*; Oxford Press). Special topics for study on which lectures will be given: The *Georgics*; Virgilian metre; the *Aeneid* as the epic of Rome. Three hours a week. For private reading: *Eclogues* 1, 4, 7, 8, 9.

19. **Roman Antiquities.** Course of lectures, illustrated by lantern slides, particularly on Roman Private Life. The topics discussed will in the main be those treated in Fowler's *Social Life at Rome in the Days of Cicero* and in Tucker's *Life in the Roman World of Nero and St. Paul*. Other books valuable for reference are: Johnston, *Private Life of the Romans*; Jones, *Companion to Roman History*; Friedlaender-Freese, *Roman Life and Manners under the Early Empire*; Sandys' *Companion to Latin Studies*; Platner, *Ancient Rome*. One hour a week.

20. **Latin Literature.** The course is designed to supplement the regular reading courses, and will consist of a series of critical lectures and reading by the students of representative selections in translation. Outline of lectures: Rise of the Epic; tragedy and the national historical drama; the masters of Latin Comedy; moral philosophy; satire; literary criticism; the novel. Prescribed readings: Seneca, *Medea*, (Loeb Library); Terence, *Phormio* (Loeb Library, or Laing, Masterpieces of Latin Literature); Seneca, *Epistulae Morales*, 7, 8, 9, 10, 12, 33, 47 (Loeb Library), *Apocolocyntosis* (Loeb Library); Persius, *Satire* 5 (Conington or Loeb Library); Juvenal, *Satires* 1, 3, 10 (Loeb Library); Quintilian, *Institutio Oratoria Book X* (Loeb Library); Petronius, *Trimalchio's Dinner* (Peck); Apuleius, *The Story of Cupid and Psyche* (Laing, Masterpieces of Latin Literature). One hour a week.

21, 22. **Roman History.** A study of the period from 133 B.C. to 37 A.D. Pelham, *Outlines of Roman History* will serve as the basis for the course. Study of special topics in Mommsen; Taylor, *Constitutional and Political History of Rome*; Capes, *Early Roman Empire*; Shuckburgh, *Life of Augustus*. At least four essays each term will be required. (Not given in 1925-26).

23. **Virgil.** *Eclogues*, *Georgics*, *Aeneid*.

24. **Tacitus.** *Annals* I-VI.

25, 26. **Latin Prose.**

DRAWING

Drawing I—Courses 1, 2. (Available only with Mathematics IA.)

1, 2. **Mechanical Drawing.** Use of instruments; geometrical problems; elementary principles of orthographic, oblique and axonometric projections; the application of such principles to the solution of problems relating to straight lines and planes; intersections and developments; plans, elevations and sections of solids; simple structural details and machine parts; bolts, screws, keys and rivets; elements of perspective as used in sketching; sketches and working drawings of machine pieces; isometric drawing; lettering, shade lines and line shading. Lectures, one hour per week, practical work, 3 hours per week, both terms. Text book: "Engineering Drawing," by T. E. French. Assistant Professor Moffatt.

DEPARTMENT OF ENGLISH

A. W. Crawford, M.A., Ph.D.....	Professor
Aaron J. Perry, M.A.....	Assistant Professor
W. T. Allison, M.A., Ph.D.	Assistant Professor
A. S. P. Woodhouse, M.A.....	Assistant Professor
R. Fletcher Argue, M.A.....	Lecturer
George C. Haddow, M.A.....	Lecturer

English I—Courses 1, 2; 3, 4. (Prerequisite, Matriculation English).

English II—Courses 5, 6; 7, 8. (Prerequisite, English I).

English IIA—Courses 7, 8.

English III—Courses 9, 10; 11, 12. (Prerequisite, English II).

English IIIA—Courses 11, 12 (to be elected only with Mathematics IIIA).

Fourth Year Arts—Major—Courses 13, 14; 15, 16; 17, 18; or 13, 14; 15, 16; 19, 20; 21, 22.

Minor—Courses 15, 16; 21, 22.

General—Courses 15, 16 or 15, 14.

First Year Engineering—Courses 7, 8.

N.B.—For key to system of numbering courses, see page 4.

1, 2. English Prose. Texts: Modern English Prose, edited by Carpenter and Brewster (Macmillan); The Century Handbook of Writing, by Greever and Jones (The Century Co., New York). A study of numerous examples of modern English prose, with practice in writing original compositions. The Century Handbook will be used as a reference book throughout both terms. First Year Arts, First and Second Terms.

(1) First Term: (a) Modern English Prose, pages 1-214, omitting selections from Ruskin, Macaulay, and Carlyle. Study and practice, chiefly in Description and Narration. (b) Collateral reading: George Eliot's Scenes of Clerical Life (Nelson's Classics).

(2) Second Term: Modern English Prose, pages 215-463, omitting selections from Huxley, Arnold, Newman, and Carlyle. Study and practice, chiefly in Exposition and Argument. (b) Collateral reading: Dickens's Great Expectations (Nelson's Classics). First Year Arts, First and Second Terms.

Assistant Professors Perry, Allison, and Woodhouse, Messrs. Argue and Haddow.

3, 4. English Literature. Texts: History of English Literature, by W. J. Long (Ginn & Co.); English Poetry, Its Principles and Progress, edited by Gayley, Young, and Kurtz (Macmillan). First Year Arts, First and Second Terms.

(1) First Term: (a) History: Chapters VII-X (to page 418);

(b) Poetry: Cavalier Lyrists to Burns (inclusive).

Wordsworth—Tintern Abbey; My Heart Leaps Up; The Solitary Reaper; I Wandered Lonely as a Cloud; The Reverie of Poor Susan; Sonnets;

Coleridge—The Ancient Mariner; Kubla Khan;

Southey—The Battle of Blenheim;

Charles Lamb—The Old Familiar Faces;

Leigh Hunt—Abou Ben Adhem;

Byron—The Prisoner of Chillon; Stanzas from Childe Harold's Pilgrimage; Know Ye the Land; She Walks in Beauty;
 Shelley—To a Skylark; The Cloud; To Night; Ozymandias.
 (c) Prose: Bunyan—Pilgrim's Progress, Part I (Nelson's Classics);
 Addison and Steele—The De Coverley Papers (King's Treasuries, Dent);

Defoe—Robinson Crusoe, Part I (Nelson's Classics);

Lamb—Essays of Elia (King's Treasuries, Dent).

(2) Second Term: (a) History—Chapter X, page 418 to the end and

XI. (b) Poetry:

Keats—Ode to a Nightingale; Ode on a Grecian Urn; La Belle Dame Sans Merci; On First Looking into Chapman's Homer;

Tennyson—Enone; The Lady of Shalott; Ulysses; Break, Break, Break; Flower in the Crannied Wall; Crossing the Bar;

Browning — Incident of the French Camp; The Patriot; Home Thoughts from Abroad; Home Thoughts from the Sea; My Last Duchess; Andrea del Sarto; Prospice; Epilogue to Asolando;

Arnold—The Forsaken Merman; To Marguerite; Rugby Chapel; Dover Beach; Requiescat;

Lowell—The Vision of Sir Launfal;

Tennyson—Lancelot and Elaine; The Passing of Arthur;

Arnold—Sohrab and Rustum (Macmillan's Pocket Classics);

Selections from Rossetti; Swinburne; Bridges; Stevenson; Watson; Kipling; Yeats; De la Mare; Masfield; Noyes; and John McCrae.

(c) Prose: Ruskin—Sesame and Lilies (King's Treasuries, Dent).

Scott—Fortunes of Nigel (Nelson's Classics);

Hardy—Far From the Madding Crowd.

Professor Crawford, Assistant Professors Perry and Woodhouse, Messrs. Argue and Haddow.

5, 6. Prose Writers. A study of some of the masterpieces of English prose. Second Year Arts, First and Second Terms.

(1) First Term: Nineteenth Century Writers.

Ruskin—A Joy Forever (World's Classics, Oxford);

Carlyle—Scottish and other Miscellanies (Everyman's Library);

Arnold—Selections from the Prose Works, edited by Johnson (Houghton, Mifflin);

Newman—On the Scope and Nature of University Education (Everyman's Library);

Huxley—Prolegomena; The Advisableness of Increasing Natural Knowledge; A Liberal Education; A Piece of Chalk;

Selections from these authors in Modern English Prose, edited by Carpenter and Brewster (Macmillan).

(2) Second Term: Seventeenth and Eighteenth Century Writers.

Bacon—Essays, edited by Northup (Houghton, Mifflin);

King James Bible—The Book of Ruth; The Book of Job;

Milton—Selected Essays: Of Education; Areopagitica; edited by Lockwood (Houghton, Mifflin);

Addison—Essays, edited by J. R. Green (Golden Treasury Series, Macmillan);

Swift—Gulliver's Travels, edited by Johnson (Macmillan's Pocket Classics);

Burke—Speech on Conciliation with America, edited by Lamont (Ginn & Co.);

Macaulay—Essay on Milton, edited by Smith (Ginn & Co.).

Assistant Professors Allison and Woodhouse, and Messrs. Argue and Haddow.

7, 8. Poetic Literature. Second Year Arts, First and Second Terms.

(1) First Term: English Poems of the Nineteenth Century, edited by Bronson (University of Chicago Press).

Wordsworth—Simon Lee; She Dwelt among the Untrodden Ways; Lucy Gray; Michael; She Was a Phantom of Delight; Elegaic Stanzas; Campbell—Ye Mariners of England; Hohenlinden; Battle of the Baltic; Lord Ullin's Daughter;

Scott—Lochinvar; Coronach; Proud Maisie; County Guy; Bonny Dundee;

Moore—The Harp That Once through Tara's Halls; Lesbia Hath a Beaming Eye; Oh, Come to Me when Daylight Sets; Oft, in the Stilly Night; Twopenny Post-Bag; Letter V;

Shelley—Ode to the West Wind; The Indian Serenade; The Mask of Anarchy; The World's Great Age Begins Anew;

Keats—On Sitting Down to Read "King Lear" Once Again; To Autumn; Ode on Melancholy; The Eve of St. Agnes;

Tennyson—The Palace of Art; The Lotus-Eaters; You Ask Me Why tho' Ill at Ease; Locksley Hall; Tears, Idle Tears; Sweet and Low; The Splendour Falls on Castle Walls; To Virgil;

Mrs. Browning—Sonnets from the Portuguese; A Musical Instrument; The Forced Recruit;

Browning—Cavalier Tunes; How They Brought the Good News from Ghent to Aix; The Bishop Orders His Tomb; Love Among the Ruins; The Last Ride Together; A Grammarian's Funeral;

Arnold—Shakespeare; West London; The Better Part; Kaiser Dead;

Rossetti—Sister Helen; Mary's Girlhood; John Keats;

Swinburne—A Song in Time of Order; When the Hounds of Spring; A Leave-Taking; A Forsaken Garden; The Salt of the Earth; Robert Browning.

(2) Second Term: Chaucer and Shakespeare.

(a) Chaucer—Prologue to the Canterbury Tales. Text: English Poetry, edited by Gayley, Young, and Kurtz (Macmillan).

(b) Shakespeare—Henry the Fourth, Part I; Romeo and Juliet; The Merchant of Venice (New Hudson Shakespeare, Ginn & Co.).

Professor Crawford, Assistant Professor Woodhouse, and Messrs. Argue and Haddow.

Note—These courses include a knowledge of the life and times of the authors read, from Long and other sources, and an ability to render Chaucer into modern English prose.)

9. Chaucer. The Canterbury Tales: The Prologue; The Knight's Tale; The Tale of the Man of Lawe; The Nonne Preestes Tale; The Pardoner's Tale; The Second Nonnes Tale; Texts: Selections from Chaucer, edited by E. A. Greenlaw (Scott, Foresman & Co.); The Tale of the Man of Lawe, etc., edited by W. W. Skeat (Clarendon Press); The Poetry of Chaucer, by R. K. Root (Houghton, Mifflin & Co.).

Third Year Arts. First Term. Two hours a week. *Assistant Professor Perry.*

10. Milton. (a) Poetry: On the Morning of Christ's Nativity; Sonnets; Paradise Lost, Books I, II, III, IV; Samson Agonistes; (b) Prose: The Tenure of Kings and Magistrates, edited by W. T. Allison (Henry Holt & Co.); (c) Biography: Milton, by Pattison (English Men of Letters); (d) Reference: Elizabethan Literature, by Saintsbury (Macmillan). Third Year Arts. Second Term. Two hours a week. *Assistant Professor Allison.*

11. The English Drama. Everyman; The Wakefield Second Shepherd's Play; Udall's Ralph Roister Doister; Norton and Sackville's Gorboduc; Marlowe's Doctor Faustus; Jonson's The Alchemist; Beaumont and Fletcher's The Knight of the Burning Pestle (Everyman's Library, numbers 381, 491, 492, 383, 490, 506). Introduction to Shakespeare, by MacCracken, and others (Macmillan): Chapters II, "English Drama Before Shakespeare"; III, "The Elizabethan Theatre"; IV, "Elizabethan London." References: Elizabethan Literature, by Saintsbury (Macmillan); History of English Dramatic Literature, by A. W. Ward (Macmillan); Elizabethan Drama, by F. E. Schelling (Houghton, Mifflin & Co.). Third Year Arts, First Term. Two hours a week. *Professor Crawford.*

12. Types of English Drama. Types of the English drama from Shakespeare to the present time.

Shakespeare—Richard the Third; Twelfth Night (New Hudson Shakespeare);

Dekker—The Shoemaker's Holiday (World's Classics, Oxford);

Sheridan—The Rivals, edited by W. D. Howe (Macmillan's Pocket Classics).

Barrie—The Admirable Crichton (Hodder and Stoughton).

Collateral reading: Introduction to Shakespeare, by MacCracken and others (Macmillan). References: same as for Course 11. Third Year Arts, Second Term. Two hours a week. *Professor Crawford.*

13. The Romantic Poets. English Poems of the Nineteenth Century, edited by Bronson (University of Chicago Press); Selections from Wordsworth, Coleridge, Byron, Shelley, and Keats. Lives of the Authors in English Men of Letters Series. Reference: Nineteenth Century Literature, by Saintsbury (Macmillan). Fourth Year Arts, First term. Three hours a week. *Professor Crawford.*

14. The English Novel. Hopkins & Hughes, Extracts from The English Novel before the Nineteenth Century (Ginn); Goldsmith's Vicar of Wakefield (Nelson's Classics); Maria Edgeworth's Castle Rackrent (Everyman); Walpole's Castle of Otranto (Hopkins & Hughes); Scott's Heart of Midlothian (Nelson's Classics); Jane Austen's Pride and Prejudice (Nelson's Classics); Thackeray's Henry Esmond (Nelson's Classics); Dickens's Oliver Twist (Nelson's Classics); George Eliot's Middlemarch (Collins); Stevenson's Master of Ballantrae (Macmillan's Pocket Classics); Hardy's The Return of the Native (Scribner's); William de Morgan's Joseph Vance (Heinemann). Text: Development of the English Novel, by W. L. Cross (Macmillan). Fourth Year Arts, Second Term. Two hours a week. *Assistant Professor Perry.*

(Note—As preparation for class study, students should read these novels carefully during the preceding summer.)

15. Tennyson. (a) Shorter Poems: The Two Voices; The Palace of Art; The Lotus-Eaters; St. Simeon Stylites; Locksley Hall; The Vision of Sin; Break, Break, Break; Ode on the Death of the Duke of Wellington; In the Valley of Caunteretz; Locksley Hall (Sixty Years After); Crossing the Bar. (b) In Memoriam. (c) Maud. (d) Idylls of the King: The Coming of Arthur; The Holy Grail; Guinevere; The Passing of Arthur. Texts: Works of Tennyson, edited by Hallam, Lord Tennyson (Macmillan); Tennyson, by Alfred Lyall (English Men of Letters Series, Macmillan). Fourth Year Arts, First Term. Two hours a week. *Assistant Professor Allison.*

16. Browning. The Lost Leader; How They Brought the Good News; Evelyn Hope; Love Among the Ruins; Up at a Villa—Down in the City; A Toccata of Galuppi's; Old Pictures in Florence; Saul; Memorabilia; My Last Duchess; The Flight of the Duchess; A Grammarian's Funeral; "Childe Roland to the Dark Tower Came"; How it Strikes a Contemporary; Fra Lippo Lippi; Andrea del Sarto; The Bishop Orders His Tomb; Cleon; One Word More; Abt Vogler; Rabbi Ben Ezra; Caliban; Prospice; O Lyric Love; Prologue to Asolando; Summum Bonum; Epilogue to Asolando; Pippa Passes. Text: Selected Poems of Browning, edited by Reynolds (Scott, Foresman & Co.); Life of Browning, by Edward Dowden (Everyman). Fourth Year Arts, Second Term. Three hours a week. *Professor Crawford.*

17, 18. Old English. Text: Bright's Anglo-Saxon Reader (Holt). (1) First Term: Phonology, Grammar. Extracts I-V, XII, XVI, XVIII, XIX. (2) Second Term: Grammar, Versification. Extracts XX, XXI, XXII, XXIII, XXIV. Judith, edited by Albert S. Cook (D. C. Heath & Co.). Fourth Year Arts, First and Second Terms. Two hours a week. *Assistant Professor Perry.*

19, 20. History of the English Language. Texts: Krapp's Modern English, Its Growth and Present Use (Scribner's); Jespersen's Growth and Structure of the English Language (Stechert).

References: Classen's Outlines of the History of the English Language (Macmillan); Emerson's History of the English Language (Macmillan); Greenough and Kittredge's Words and Their Ways in English Speech (Macmillan). Fourth Year Arts, First and Second Terms. One hour a week. *Assistant Professor Perry.*

21. Nineteenth Century Literature. (a) Prose. Selections from Newman, Arnold, Huxley, Ruskin, and Carlyle, in *Materials for the Study of English Literature and Composition*, edited by Frank Aydelotte, (Oxford). (b) Poetry. English Poems of the Nineteenth Century, edited by Bronson (University of Chicago Press); Selections from Mrs. Browning, Clough, Arnold, Rossetti, Swinburne. Supplementary reading: Dickens's Hard Times (Nelson Classics). References: (1) Hugh Walker: The Literature of the Victorian Era, pp. 1-79, 211-239, 444-512; (2) Oliver Elton: Survey of English Literature, Second Series, Vol. I, pp. 1-40, 179-201, 218-249. Fourth Year Arts, First Term. One hour a week. *Assistant Professor Woodhouse.*

22. Contemporary and Canadian Poets. (a) British Contemporary Poets. Text: An Anthology of Modern Verse, with an introduction by Robert Lynd (Methuen & Co., London). Selections from Robert Bridges; Rupert Brooke; W. H. Davies; Thomas Hardy; Rudyard Kipling; Walter De la Mare; John Masefield; Alice Meynell; Henry Newbolt; Siegfried Sassoon; Francis Thompson; William Watson; W. B. Yeats.

(b) Canadian Poets. Text: Our Canadian Literature: Representative Prose and Verse, edited by Watson and Pierce (Ryerson Press). Special attention will be paid to the selections from the following: Charles Sangster, Charles Mair, Isabella Crawford, W. H. Drummond, Charles G. D. Roberts, Wilfred Campbell, Bliss Carman, Archibald Lampman, Duncan C. Scott, Pauline Johnson, Marjorie Pickthall. Additional readings in the authors named may be assigned by the instructor. Reference: A History of English Canadian Literature to Confederation, by Ray Palmer Baker (Harvard University Press). Fourth Year Arts, Second Term. One hour a week. *Assistant Professor Allison.*

Advance Notice of Proposed New Pass and Honor Courses in Fourth and Fifth Years

The following are the proposed courses for the Fourth and Fifth Years. The new courses for the Fourth Year will be given in detail in the Calendar for 1926-1927.

FOURTH YEAR ARTS

Honor Courses

First Term
Elementary Old English
Spenser

Second Term
Middle English
Shakespeare

Pass and Honor Courses

Eighteenth Century Classical
Writers
Tennyson

Eighteenth Century Romantic
Writers
Canadian and Contemporary
Writers

FIFTH YEAR ARTS

Honor Courses

First Term
Wordsworth and Coleridge
Early Nineteenth Century
Writers
The English Novel

Second Term
Browning
Later Nineteenth Century
Writers
Old English

DEPARTMENT OF FRENCH

W. F. Osborne, M.A.	.....	<i>Professor</i>
F. C. Green, M.A., Ph.D., Doct. de l'Univ. de Paris	.....	<i>Assistant Professor</i>
Celine A. Ballu, M.A.	.....	<i>Lecturer</i>
A. Marie Haynaud, M.A.	.....	<i>Lecturer</i>
M. E. Richard, B.A.	.....	<i>Lecturer</i>

French I—Courses 1, 2; 3, 4. (Prerequisite: Matriculation French.)

French II—Courses 5, 6; 7, 8. (Prerequisite: French I).

French IIA—Courses 9, 10.

French III—Courses 11, 12; 13, 14. (Prerequisite: French II).

Fourth Year Arts—Major—Courses 15, 16; 17, 18; 19, 20; 21; 22.

Minor—Courses 15, 16; and either 17, 18, 19, 20; or 21, 22.

General—Courses 17, 18, 19, 20; or 21, 22.

N.B.—For key to system of numbering courses, see page 4.

1, 2. French Grammar and Composition. *First Term:* Lower Grade Syntax and Composition (Part I, Section II), by Moore and Slight, published by Blackie and Son. Lessons I-XXIX inclusive, together with pp. 75-84 for the Verb.

Second Term: The twenty-five Topics contained in An Up-to-date French Composition by Green and Fort, published by Oxford University Press, for translation from English into French and for oral work.

The examination will include an adequate proportion of sight work taking into account what should be the general knowledge and vocabulary of a candidate in French at this stage, and an oral test of which Dictation will be a part.

3, 4. French Authors. *First Term:* Pathelin et Autres Pièces, edited by Dondo, published by Heath.

Second Term: Le Monde ou l'on s'ennuie, by Pailleron, edited by Price and published by Ginn and Co.; and La Jeune Sibérienne, by Xavier de Maistre, edited by Fontaine, published by Heath.

Approximately half the marks assigned to translation as such in the examination will be given to sight work of appropriate grade.

5, 6. French Practice and Composition. *First Term:* Voici la France, by Clément and Macirone, published by Heath, pp. 1-50. Rapid Exercises on French Grammar by Victor Spiers, published by Rivingtons, pp. 50-69. For reference: Fraser and Squair's French Grammar.

Second Term: Voici la France, pp. 51-109. Rapid Exercises on French Grammar by Spiers, pp. 70-98. For reference: Fraser and Squair's French Grammar.

The examination will include an oral test.

7, 8. French Authors. *First Term:* Le Roman d'un Jeune Homme Pauvre, by Octave Feuillet, edited by Bruner and published by Heath.

Second Term: Le Verre d'Eau, edited by Roget and published by Macmillans; and La Peur de Vivre, by Henry Bordeaux, edited by Church and published by Henry Holt.

Approximately half the marks assigned to translation in the examination will be given to sight work.

9, 10. French Authors. *First Term:* Bazin, La Douce France, edited by Latour, published by Methuen and Co., and La Petite Fadette, by George Sand, edited by Delbos, published by Oxford University Press.

Second Term: George Sand, La Mare au Diable, edited by Sumichrast, published by Heath; Lamartine, Scènes de la Révolution Française, edited by Super, published by Heath; Rivarol, De l'Universalité de la Langue Française, edited by Comfort, published by Ginn and Co.

Approximately half the marks assigned to translation in the examination will be given to sight work.

11, 12. French Practice and Composition. *First Term:* Morceaux Choisis, edited by V. Bouillot (Garçons—classe de 6e; J. Filles—1re Année Secondaire), Lessons 1-20 inclusive.

Second Term: Morceaux Choisis, edited by V. Bouillot, Lessons 21-45 inclusive.

Term marks will be assigned for class-work in this subject, and a part of the examination will be an oral test.

13, 14. French Authors. *First Term:* Corneille, Horace; Racine, Iphigénie; Molière, L'Avare; Voltaire, Mérope (all in the edition Les Classiques pour Tous, Librairie A. Hatier, Paris). For collateral reading, content of which will enter into the examination: Voltaire's Zaïre in edition Classiques pour Tous, Hatier; and Landmarks in French Literature by G. L. Strachey (in Home University Library, William Briggs, Toronto), to p. 131.

Second Term: Victor Hugo, La Préface du Cromwell, edited by Wahl and published by Oxford University Press, and Ruy Blas, edited by Hutton and published by Oxford University Press; Selections of French Prose and

Verse illustrating the Romantic Movement, edited by Baker and published by Methuen and Co. For collateral reading, content of which will enter into examination: Balzac's *Eugénie Grandet* in edition *Classiques pour Tous*, Hatier, Paris, and the balance of Strachey's *Landmarks in French Literature*.

Approximately half the marks assigned to translation in the examination will be given to sight work.

15, 16. French into English. *First Term:* Le Sage, Montesquieu, Marivaux, Vauvenargues, Voltaire, Rousseau, Diderot, Buffon, Beaumarchais, Bernardin de Saint-Pierre, André Chénier in *Anthology of French Prose and Poetry*, edited by Vreeland and Michaud, and published by Ginn & Co.

Second Term: Madame de Staël, Chateaubriand, Lamartine, Alfred de Vigny, Victor Hugo, Sainte-Beuve, Alfred de Musset, George Sand, Michelet, Balzac, Théophile Gautier, Leconte de Lisle, Flaubert, Taine, Renan, Zola, Sully-Prudhomme, Loti, Verlaine, Anatole France in *Anthology of Vreeland and Michaud* as above.

The object of this course will be to aim at accuracy and general excellence in the matter of translation. At the same time the authors will be studied and presented in their historical setting. In connection with each author the student will use Des Granges, *Histoire de la Littérature Française* (Librairie Hatier, Paris, 18th edition).

17. Eighteenth Century Literature and History. Montesquieu, *Extraits de l'esprit des lois*; pub. Hachette, *Classiques Français*; Voltaire, *Contes* pub. Hatier; Diderot, *Selections* pub. Heath; Rousseau, *Lettre à d'Alembert* pub. Hatier; d'Argenson, *Journal* pub. Armand Colin. In this course there will be no translation in class, and the student should aim to read only in French. The object will be to study the pieces prescribed as works of art and as reflections of the literary and historical conditions of which they are the product. Des Granges, *Histoire de la Littérature Française* (prescribed here as in courses 15, 16) will be used regularly by the student in connection with the authors concerned, and a constituent part of the course (included in the examination) will be collateral reading done in the Library under the direction of the Professor.

18. Nineteenth Century Literature and History. Representative French Lyrics of the 19th Century, Ed. by Henning (Ginn); Hugo, *Hernani* (Hachette, *Théâtre français*); Vigny, *Chatterton* (Hatier); Musset, *Il faut qu'une Porte soit ouverte ou fermée* (Hachette, *French Classics*). The note appended to course 17 applies here in its entirety.

19. Eighteenth Century Theatre. Lesage, *Turcaret* pub. Hatier; Marivaux, *Le jeu de l'amour et du hasard* (Hatier); Destouches, *Le Glorieux* (Hatier); Voltaire, *Zaïre* (Hachette, *French Classics*); Beaumarchais, *Le Mariage de Figaro* (Hachette, *Grands Classiques Français*, cloth).

20. Nineteenth Century Novel. Chateaubriand, *Atala* (Hatier); Sand, *Mauprat* (Nelson); Balzac, *Le Colonel Chabert* (Hatier); Stendhal, *La Chartreuse de Parme* (Nelson); Anatole France, *Jocaste et le chat maigre* (Nelson). The note appended to course 17 applies in its entirety here.

21, 22. Explication de Textes. V. Bouillot, *Morceaux Choisis*, *Garçons—Classe de cinquième*. Texts collateral to this will be used in this course at the discretion of the Instructor. *Dictionnaire Essentiel*, par A-Zed. This course will consist of studies in style and exercises in composition. Fifty per cent. of the marks accorded to this course will be allotted to class work and exercises assigned in connection therewith.

DEPARTMENT OF GEOLOGY AND MINERALOGY

Robert C. Wallace, M.A., Ph.D., D.Sc., F.G.S., F.R.S.C.....	<i>Professor</i>
Justin S. De Lury, B.A.....	<i>Assistant Professor</i>
George M. Brownell, B.Sc.....	<i>Assistant</i>
H. Fraser.....	<i>Demonstrator</i>

Geology II—Courses 1, 2; 3, 4.

***Geology III**—Courses 7, 8, 11, 12; 13, 14.

Geology IV (1926-27 and thereafter)—Courses 19; 20.

Geology IV H (1926-27 and thereafter)—Courses 15, 16; 17, 18; 19; 20.

Fourth Year Arts—General Courses—Courses 1, 2; 3, 4.

Natural and Physical Science Divisions A and C—
Courses 15, 16; 17, 18; 19 (optional).

Division D—Courses 27, 28; 29, 30; in preference to
15, 16; 17, 18.

Fourth Year Science—Courses 15, 16; 17, 18; 23, 24; 25, 26, or Courses
27, 28; 29, 30; 31, 32; 33, 34.

Third Year Civil Engineering—Courses 5, 6; 7, 8.

First Year Pharmacy (Degree or Diploma Course)—Course 9.

N.B.—For key to system of numbering courses, see page 4.

1, 2. **General Geology.** The more important minerals and rocks. Earth features and the forces that modify them. Structures seen in rocks. Rocks and the soil. Water supply. Ore deposits. Fossils and their meaning. Origin and age of the earth. Historical geology, in particular of Western Canada. Evolution of plant and animal life. Coleman and Parks' Elementary Geology.

3, 4. **Practical Demonstrations.** On minerals, rocks, and fossils, and in topographical and geological mapping. One hour a week.

5, 6. **Engineering Geology.** Similar in scope to course 1, 2, but with particular application to engineering problems, such as water supply, foundations, building stone, mining processes, and structural materials. Coleman and Parks' Elementary Geology. Two hours a week.

7, 8. **Practical Geology.** Systematic examination of minerals by blowpipe and dry way tests. Identification of the commoner minerals and rocks. Mapping of geological sections. Identification of type fossils. Three hours a week.

9. **Elementary Mineralogy.** The crystalline and physical properties of minerals, in particular of the more soluble minerals. Methods of identification. Two hours a week.

11, 12. **Mineralogy and Crystallography.** Laws of crystallography. Stereographic projection. Systems and classes. Optical properties. Classification and systematic study of minerals. Genetic relationships. Rogers' Introduction to the Study of Minerals. Two hours a week.

*Students in Geology III may select as an alternative to the second term work in Practical Geology (Course 8), the Surveying Course for Geology students offered by the Department of Civil Engineering. All students who intend to apply for field positions are advised to select the surveying alternative.

13, 14. Practical Mineralogy and Crystallography. Crystal drawing. Identification of crystal forms. Goniometric investigation of single crystal. Study and identification of minerals. Two hours a week.

15, 16. Petrology. Optical properties of rock-forming minerals under polarising microscope. Classification of rocks. The characteristics of the various rock families. Magmatic differentiation. Physicochemical laws governing the formation of igneous, metamorphic, and sedimentary rocks. Harker's Petrology. Two hours a week.

17, 18. Practical Petrology. Identification of rock-forming minerals under the microscope. Study and identification of rocks in thin sections, and in hand specimens. Preparation of thin sections. Quantitative estimation of rocks. Five hours a week.

19. Economic and Mining Geology. Nature and origin of ore deposits. Natural occurrence, methods of identification, and evaluation of the more important ores. Geological structure of chief ore-bearing regions in Canada. Mining processes. Three hours a week.

20. Vertebrate and Invertebrate Palaeontology. A study mainly of the invertebrates, and more especially of their hard parts. Classification, distribution, and geological range. Fossils of North America, and particularly of Western Canada. Wood's Palaeontology. Two hours a week.

22. Practical Vertebrate and Invertebrate Palaeontology. Preparation of material for study. Examination of collections of North American fossils. Three hours a week.

23, 24. Advanced Economic Geology. An exhaustive study of the genesis and mineralogy of ore deposits. The structural geology and petrography of the great mining districts of the world. Emmon's Principles of Economic Geology. Two hours a week.

25, 26. Practical Advanced Economic Geology. A practical study of map folios, ore suites and rock formations of some important mining fields; field methods in economic work. Three hours a week.

27, 28. Advanced Invertebrate Palaeontology. A study of invertebrate fossils in more taxonomic detail than in Course 20, with special attention to phylogenetic relations and their application to a natural scheme of classification. Zittel's Textbook of Palaeontology, Vol. 1. Lectures two hours a week.

29, 30. Practical Advanced Palaeontology. Determination of fossil species involving a knowledge of the palaeontological literature of Canada and the United States. Study of a western fauna. Four hours a week.

31, 32. Stratigraphic Geology. Time relations of rocks as indicated by structure; Petrology and conditions of deposition of sedimentary rocks. Outlines of North American Stratigraphy. Physical and faunal history of the various periods. Principles of correlation. Palaeogeography. Lectures two hours a week.

33, 34. Practical Stratigraphic Geology. Chronological Interpretation of geological maps. Study of typical sedimentary rocks. Faunas of the various periods. Practice in correlation. Four hours a week.

35, 36. Advanced Investigations and Research. Students in the M.A. and M.Sc. courses, and the more advanced students in the fourth year of the B.Sc. course will carry out, under direction, independent investigation on some field or laboratory problem. The laboratories are open all day for this purpose.

37, 38. Geological Excursions. During October, the earlier part of November, and the latter part of March, excursions will be conducted on Saturdays to places of geological interest in the neighborhood of Winnipeg. These excursions form an integral part of the class work.

39, 40. Extension Evening Courses. Courses are offered in all branches of Geology, Mineralogy, Ore-Deposits, etc. The nature of the courses, their duration, etc., are arranged by consultation with those interested. The courses are free, or nominal fees only are charged for a few courses.

41, 42. Assaying. A course on the determination of the precious metals in ores by means of the fire assay, for those students who are able to take such a course in addition to their regular work. A knowledge of elementary chemistry is prerequisite, and some acquaintance with minerals and rocks is desirable. Three hours a week.

Students who intend to take Geology as a final subject should, if possible, spend their summers as student assistants under the Geological Survey of Canada.

Additional Text-books Recommended

Text-book of Geology, Pirsson and Schuchert; Geology, Chamberlin and Salisbury; Handbook of Minerals, Butler; Crystallography, Williams; Determinative Mineralogy, Brush and Penfield; Practical Mineralogy, Rowe; Minerals and How they Occur, Miller; Palaeontology, Woods; Mineral Deposits, Lingren; Economic Geology, Ries; Metamorphic Geology, Leith and Mead; Manual of Petrographic Methods, Johannsen; Determination of Rock Forming Minerals, Johannsen; Quantitative Classification of Igneous Rocks, Cross, Iddings, Pirsson and Washington; Notes on Assaying, Lodge; Assaying, Fulton.

DEPARTMENT OF GERMAN

J. H. Heinzelmann, B.A., Ph.D. *Professor*
Mrs. R. F. Jones *Assistant*

German IA— Courses 1, 2.

German I—Courses 3, 4; 5, 6. (Prerequisite, Matriculation German).

German II—Courses 7, 8; 9, 10. (Prerequisite, German I).

German III—Courses 11, 12; 13, 14.) Prerequisite, German II).

Fourth Year Arts—Major and Minor—Courses 11, 12; 13, 14; 15, 16.

N.B.—For key to system for numbering courses, see Page 4.

1, 2. Elementary German. The course is offered as a second choice of a First Year language option for those who enter the University without German. For the First Term the work will cover Keyser and Montseser's Foundations of German (Amer. Book Co.), pages 1-77 and Allen's Daheim (Holt), pages 1-25. For the second term the work in the Grammar will extend to page 164 and in Daheim to page 118. Four hours a week.

3, 4. **Authors.** The reading for the first term will consist of Zschokke's *Der zerbrochene Krug* (Heath), Hillern's *Höher als die Kirche* (Ginn), and Hatfield's *Shorter German Poems* (Heath), Part I. Poems 2, 8, 10, 11, 18 and 20 are to be memorized.

For the second term the reading will be: Wilbrandt's *Jugendliebe* (Holt), Baker's *German Stories* (Holt), and Hatfield's *German Poems*, Part II. Poems 27, 29, 51 and 55 are to be memorized.

5, 6. **Written and Oral Composition.** Chiles' *German Prose Composition* (Ginn). First Term, Part I; Second Term, Part II.

Note—The course includes additional oral and written exercises. Those intending to take the examination and are not attending the University classes should consult the department).

7, 8. **Authors.** During the first term the following books will be read: Arnold's *Fritz auf Ferien* (Heath), Storm's *In St. Jürgen* (Ginn), Seidel's *Lebercht Hühnchen* (Heath), and Bruns' *Book of German Lyrics* (Heath), pp. 1-49.

The reading for the second term will be: Baumbach's *Der Schwiegersohn* (Ginn), Moser's *Der Bibliothekar* (Heath), and the remainder of Bruns' *Book of German Lyrics*.

9, 10. **Composition.** Whitney and Stroebe, *Easy German Composition* (Holt). First Term, pp. 1-33; Second Term, pp. 34-78.

11. **Lessing.** A survey of German Literature of the Eighteenth Century and a detailed study of the life of Lessing will accompany the reading of *Minna von Barnhelm* (Holt), *Emilia Galotti* (Heath), and *Nathan der Weise* (Ginn). Three hours per week.

12. **Goethe.** A detailed study of his life and literary development, together with the reading of the following: *Poems* (Heath), *Götz von Berlichingen* (Ginn), *Werther* (Oxford Press), *Faust*, Part I (Heath), *Iphigenie* (Ginn). Three hours per week.

13, 14. **German Conversation.** One hour per week.

15. **History of German Literature to 1800.** Lectures on the main currents of German literature in its earlier periods, illustrated by the reading of selections from some of the more important masterpieces. Three hours per week.

16. **Schiller.** The author's life and the critical reading of *Kabale und Liebe* (Holt), *Wallensteins Tod* (Heath), *Wilhelm Tell* (Holt), and *Poems* (Holt). Three hours per week.

17. **The Romantic School.** Lectures on the history of German literature from 1800 to 1850, with collateral readings and reports. Three hours per week. (Not given in 1925-26.)

18. **The Modern German Drama.** A study of the development of the German drama in the nineteenth century, with some consideration of related movements in other European countries. About twenty representative dramas will be read and discussed. Three hours per week. (Not given in 1925-26.)

19. **Modern Germany.** A survey of its political and cultural development during the last two centuries. Two hours per week. (Not given in 1925-26.)

20. **The German Novel.** Lectures on its history will accompany the reading of typical examples. Two hours per week. (Not given in 1925-26.)

DEPARTMENT OF HISTORY

Chester Martin, M.A., B.Litt., F.R.S.C.....	Professor
Daniel C. Harvey, M.A.....	Assistant Professor
Joseph E. Howe, M.A.....	Lecturer
Ursilla N. Macdonnell, M.A., Ph.D.....	Lecturer

History I—Courses 1, 2.

History II—Courses 3, 4.

History III—Courses 5, 6. (Prerequisite, History II.)

Fourth Year Arts—Major—Courses, 7, 8; 9, 10.

Minor—Courses 9, 10.

The periods outlined for all courses except those for the First Year are covered by formal lectures supplemented by tutorial work with smaller groups of students. Essays, prepared and discussed twice a week with the instructor in charge, are intended to deal as far as possible with the chief problems under consideration.

N.B.—For key to system of numbering courses, see page 4.

1. **Ancient History.** Goodspeed, *History of the Ancient World* (Ferguson and Chadwick revision), supplemented by lectures and class work.

2. **Mediaeval History.** A. J. Grant, *A History of Europe* (Longmans), Part II., supplemented by lectures and class work.

For Courses 1 and 2 students are advised to use the historical atlases in Everyman's Library—Classical History and European History.

3, 4. **Modern History.** Modern History, 1400-1648 and 1648 to the present time. The elementary groundwork of the course will be found in Grant's *History of Europe*, Parts III and IV (Longmans, Green & Co.), supplemented by Johnson's *Europe in the Sixteenth Century* (Macmillan Co., New York) for the first term, and Johnson's *Age of the Enlightened Despots, 1660-1789* and Marriott's *Remaking of Modern Europe, 1789-1878* (both Macmillan Co., New York) for the second term. References will be supplied from time to time to a wider range of reading upon a series of topics to be prepared by students for discussion in the regular essay periods of the course. Three lectures and one essay period per week.

5, 6. **The Political Development of British Peoples.** A survey of political institutions in Britain and the British dominions. For the first term emphasis will be placed upon the primitive institutions of the Anglo-Saxon peoples, the effects of Christianity, the Danish invasions and the Norman Conquest, the administrative reforms of the Norman and Angevin Kings, the Great Charter, the evolution of parliament, "the New Monarchy" and Tudor conciliar government; for the second term emphasis will be placed upon the Great Rebellion and the Revolution Settlement, the evolution of political parties, the cabinet and parliamentary government in Great Britain, colonial government and the American Revolution, "responsible government" in the British dominions, parliamentary reform, etc.

No text-books are prescribed, but the following source-books will be used for purposes of reference and illustration: Stubbs, *Select Charters*;

Prothero, *Statutes and Constitutional Documents, 1559-1625*; Gardiner, *Constitutional Documents of the Puritan Revolution, 1628-1660*; Robertson, *Select Statutes, Cases and Documents, 1660-1832*; Macdonald, *Select Charters Illustrative of American History, 1606-1775*; Morison, *Documents of the American Revolution*; Durham's *Report*.

For the essay work of the course students will be referred to various authors, such as Stubbs, Maitland, Davis, Gardiner, Hallam, Ranke, Trevelyan, Erskine May, Anson, Dicey, Beer, Egerton and others as the occasion for consulting them arises. The course will be by no means exclusively political, but the main theme will be the origin and historical development of the British forms of parliamentary government. Three lectures and one essay period per week.

7, 8. European History, 1789 to Present Time. The aim of this course is to provide an historical background to present day National and International problems. A study will be made of the outstanding characters, tendencies, movements and events of the period, among which the following may be indicated: The French Revolution, Napoleon, The Congress of Vienna, The Holy Alliance and the Concert of Europe, Metternich and the Reaction after 1815, The War of Greek Independence, The Revolution of 1830 and the Separation of Belgium from Holland, The Revolution of 1848, The Second Empire in France, The Crimean War and the Eastern Question, Reform and Reaction in Russia, The Prussianization of Germany, The Dual Monarchy of Austria-Hungary, The Union of Italy, The Franco-Prussian War and the Establishment of the German Empire, The Balkan Nationalities and the Russo-Turkish War, The Congress of Berlin, The Expansion of Europe in Asia and Africa, The Triple Alliance and the Triple Entente, The Growth of Internationalism, The Russo-Japanese War, The Turco-Italian War, The Balkan Wars, The War of 1914-18, The League of Nations and the Peace of Versailles.

A general survey of the period may be made from: Rose, *The Revolutionary and Napoleonic Era*; Alison Phillips, *Modern Europe*, or E. Lipson, *Europe in the 19th Century*; Anderson, *Constitutions and Documents for the History of France 1789-1907*; Oakes and Mowat, *The Great European Treaties of the 19th Century*; Robertson and Bartholomew, *A Historical Atlas of Modern Europe*.

Reference will be made for essays and general reading to the following primary and secondary sources among others: *Memoirs of Mme. Remusat*, Mme. Campan, Bourrienne, Metternich, Talleyrand, Bismarck, Crispi; Rousseau, *Social Contract*; Young, *Travels in France*; Burke, *Reflections on the French Revolution*; Karl Marx, *Revolution and Reaction in Germany and Austria*; Cambridge Modern History; Lavissee et Rambaud, *Histoire Generale*; Aulard, *French Revolution*; Carlyle, *French Revolution*; Acton, *Lectures on the French Revolution*; Madelin, *The French Revolution*; Fisher, Rose, Fournier, Napoleon I; Coquelle, Napoleon and England; Seeley, *Life and Times of Stein*; Mahan, *Influence of Sea Power on the French Revolution and Empire*; Fisher, *Napoleonic Statesmanship in Germany*; Dawson, *The Evolution of Modern Germany and the German Empire 1867-1914*; Grant Robertson, *Bismarck*; Stillman, *The Union of Italy*; King, *A History of Italian Unity*; Thayer, Cavour; King, Mazzini; Trevelyan, Garibaldi; Fisher, Bonapartism; Simpson, *The Rise of Napoleon III*; De La Gorce, *Histoire du Second Empire*; Seton-Watson, *Racial Problems in Hungary*; Forbes, *History of the Balkans*; Marriott, *The Eastern Question in European Diplomacy*; Rose, *The Development of European Nations*; Muir, *The Expansion of Europe*; Muir, *Nationalism and Internationalism*; Zimmern, *Nationality and Government*. Four hours a week.

9, 10. **Canadian History, 1713-1905.** The following outline will serve to indicate the chief phases and problems of the period under discussion:

The Old Colonial System, Nova Scotia to the American Revolution, Quebec under Murray, Carleton's Administration and the Quebec Act, Quebec and the American Revolution, The United Empire Loyalists, Haldimand's Administration, The Constitutional Act, Simcoe in Upper Canada, Reaction and Reform, The War of 1812, The Opening of the West, Conflict between the Hudson's Bay and North-West Companies, The Red River Settlement, Reform in Upper Canada, The Papineau Rising, Durham's Report, Responsible Government in the Maritime Provinces, Responsible Government in Canada, The Breakdown of the Union, Confederation, The B.N.A. Acts, The Riel Insurrection and the Manitoba Act, Additions to Confederation, Problems of the Dominion.

The following source-books will be used for reference: Shortt and Doughty, *Constitutional Documents, 1759-1791*; Doughty and McArthur, *Documents, 1791-1818*; Egerton and Grant, *Canadian Constitutional Development*; Oliver, *The Canadian North-West; Report on the Hudson's Bay Company, 1857*; *Durham Papers* (Calendar, Canadian Archives, 1923); *Durham's Report* (ed. Lucas); *Pope's Confederation Documents; Confederation Debates*; *Kennedy's Documents of the Canadian Constitution, 1759-1915*. References will be supplied from time to time to a wider range of reading for the regular essay work of the course. The following will be found useful: *Canada and Its Provinces*, 23 vols.; *The Chronicles of Canada*; *The Makers of Canada*; *Beer's Colonial Policy, 1756-1765*; *Historical Geography of the English Colonies*; *Kennedy, The Canadian Constitution*; *Selkirk's Work in Canada*; *Benoit's Vie de Tache*; *Wrong's Elgin*; *Morison, British Supremacy and Canadian Self-Government*; *Speeches and Public Letters of Joseph Howe* (ed. Chisholm); *Skelton's Galt*; *Pope's Letters of Macdonald*; *Trotter's Canadian Confederation*, etc. Three lectures and one essay period per week.

DEPARTMENT OF MATHEMATICS AND ASTRONOMY

Neil Bruce MacLean, D.S.O., M.A., Ph.D., F.R.A.S.C.....	Professor
Norman R. Wilson, M.A., Ph. D.....	Professor
Lloyd A. H. Warren, M.A., Ph. D., F.R.A.S., A.A.I.A., A.A.S., A.C.A.S.	Assistant Professor
William Tier, M.A.....	Assistant Professor
Frederick S. Nowlan, A.M.	Assistant Professor
Samuel Silberfarb, B.A.....	Fellow

Mathematics I—Courses 1, 2; 3, 4. (Prerequisite, Matriculation Mathematics).

Mathematics IA—Courses 5, 6. (Available only with Drawing I).

Mathematics II—Courses 13, 14; 15, 16. (Prerequisite, Mathematics I).

Mathematics IIA—Courses 5, 6.

Mathematics III—Courses 25, 26; 29, 30. (Prerequisite, for 29, 30. Mathematics II).

Mathematics IIIA—Courses 73, 74 (to be elected only with English IIIA).

Mathematics IIH—Courses 29, 30; 55, 56. (Prerequisite, Mathematics II).

Fourth Year Arts, Full Course—Courses 37; 39, 40; 48; 57, 58; 75; 77, 78; 93; 96 or 76.

Major—Courses 39, 40 and a selection from Courses 37; 48; 57, 58; 75, 76; 77, 78; 93; 96.

Minor—Selection from Courses 37; 39, 40; 48; 57, 58; 73, 74; 75, 77, 78; 93; 96.

Natural and Physical Science Divisions A and B—Courses 39, 40; 57, 58.

Minor in Finance—Courses 73, 74 or 75 with 76 or 78.

Fourth Year Science—Courses 39, 40; 61, 62 (balance to be outlined).

First Year Pharmacy (Degree Course)—Courses 1, 2; 3, 4.

First Year Architecture—Courses 1, 2; 3, 4; 5, 6.

Second Year Architecture—Courses 19, 52.

First Year Engineering—Courses 17, 18; 19, 20; 52; 93.

Second Year Engineering—Courses 21, 22; 89.

Third Year Civil Engineering—Courses 54, 96.

Third Year Electrical Engineering—Course 23.

Astronomy II—Courses 91, 92.

Astronomy III—Courses 89, 93, 54, 96.

N.B.—For key to system of numbering courses, see page 4.

PURE MATHEMATICS

1, 2. Algebra. Variation; arithmetical progression; geometrical progression; harmonical progression; the sum of the squares of the natural numbers; annuities; permutations and combinations; binomial theorem for a positive integral exponent; introduction to logarithms; introduction to determinants of the second and third orders. Intermediate Algebra, Wilson and Warren (Oxford University Press). Two hours per week.

3, 4. Analytical Geometry. The analytical geometry of the straight line, circle, parabola, ellipse and hyperbola. Crawley and Evans' Analytical Geometry (University of Pennsylvania, Philadelphia) to page 106. Two hours per week.

5, 6. Plane Trigonometry. Playne and Fawdry's Practical Trigonometry (Copp, Clark & Co.), Logarithmic and Trigonometric Tables by Wentworth and Hill (Ginn & Company). Students are required to become familiar with the use of tables in the solution of problems. Two hours per week.

7. Synthetic Solid Geometry. Hall and Stevens' "A School Geometry," Part VI (Macmillan Co.). Theorems 81, 83, 84, 91, 92, 94, 97, 98 and pages 383-442; or the corresponding work in Betz and Webb's Solid Geometry (Ginn & Co.). Two hours per week.

9, 10. Algebra. The binomial, exponential and logarithmic series; other series; surds and imaginary quantities; mathematical induction; undetermined coefficients; partial fractions. This work may be found in Hall and Knight's Higher Algebra. (Macmillan & Co.). Two hours per week.

13, 14. Analytical Geometry, Plane and Solid. A continuation of course 4. Analytical Plane Geometry, with a brief introduction to Analytical Solid Geometry. Crawley and Evans' Analytical Geometry, page 107 to the end. Two hours per week.

15, 16. Calculus. An elementary course in Differential and Integral Calculus with practical applications. Differentiation of algebraic and trigonometric functions, with corresponding integrations, measurement of rates, motion in curved paths, maxima and minima, definite integrals, areas and lengths of curves, volumes and surfaces. Calculus for Beginners, W. M. Baker (G. Bell & Sons) to page 105. Two hours per week.

17, 18. Algebra. Elementary determinants and their application to the solution of linear equations; partial fractions; continued fractions; hyperbolic functions, graphs of algebraic, trigonometric, inverse, exponential, logarithmic and hyperbolic functions; limiting values and vanishing fractions. Two hours per week.

19. Analytical Geometry. Selections from Crawley and Evans' Analytical Geometry, page 107 to the end. Three hours per week.

20, 21, 22. Calculus. An elementary course with practical applications. Differentiation, measurement of rates, motion in curved paths, maxima and minima, partial derivatives, tangents and normals, curvature, evolutes, expansions, formation of differential equations, integration, areas and lengths of curves, volumes and surfaces. A course designed for Engineering students. Differential and Integral Calculus, W. A. Granville (Ginn & Co.). Two hours per week, second term of First Year, and three hours per week throughout the Second Year.

23. Differential Equations. A short course specially adapted to meet the needs of students in Engineering and which will include special topics in Engineering mathematics. Murray, Differential Equations. Two hours per week.

25, 26. Algebra—Determinants and Theory of Equations. A continuation of course 1, 2. Intermediate Algebra, Wilson and Warren. Two hours per week

29, 30. Differential and Integral Calculus. A continuation of course 15, 16. Integration, partial derivatives, tangents and normals to curves and surfaces, curvature, evolutes, expansions, formation of differential equations, n th derivatives, Leibnitz's theorem, indeterminate forms, maxima and minima, reduction formulae, double and triple integration. Text to be selected. Two hours per week.

37. Advanced Calculus. A continuation of Course 29, 30. (a) Differential Calculus. Expansions; maxima and minima; various equations of a curve; derived curves; envelopes; asymptotes; singular points. (b) Integral Calculus. Volumes by triple integration; definite integrals; beta and gamma functions; pedals and roulettes; Steiner's and Holditch's Theorems; the planimeter. Two hours per week.

39, 40. Differential Equations. Methods used in elementary practical applications to physical and engineering problems, symbolic methods, geometrical applications and elementary general theory. Murray, Differential Equations, (Longmans, Green & Co., New York). Two hours per week.

41. History of Mathematics. The historical development of number systems, arithmetic, algebra, geometry, trigonometry and calculus, from the earliest times to the present. Two hours per week.

43, 44. Analytical Solid Geometry. A study of the elementary geometrical relations in space of three dimensions, of the straight line, plane and of surfaces which are represented by second degree equations. The Department has a considerable number of the splendid thread and plaster models of Brill, for illustrating the teaching of geometry of three dimensions. Snyder and Sisam, *Analytic Geometry of Space*. Two hours per week.

45, 46. Projective Geometry. A course in modern projective geometry. Detailed outline and text book announced later. Two hours per week.

48. Vector Analysis. The elements of vector analysis, with applications to geometry and mechanics. *Vector Analysis*, Coffin, (McGraw, Hill Book Co.)

APPLIED MATHEMATICS

52. Solid Geometry and Mensuration. Fundamental theorems of solid geometry. The mensuration of plane and solid figures. Superficial area, and volume of the pyramid, cone, cylinder, sphere, wedge, frustums, segments, zones, sectors; the prismoidal formula; applications to problems in connection with the earth; lengths of open and crossed belts; Betz and Webb's *Solid Geometry*. Two hours per week.

54. The Theory of Errors and Method of Least Squares. The general principles of probability, the law of error, direct measurements of equal and different weights, mean square and probable errors, indirect measurements; conditioned observations; applications to empirical constants and formulae. One hour per week.

55, 56. Analytical Mechanics. Centres of gravity, moments of inertia, pressure and centres of pressure of fluids; statics of flexible cords, cords on rough surfaces; rectilinear and curvilinear motions; pendulums; projectiles; rotary motion; work and energy, friction; dynamics of rigid bodies; impact. Two hours per week.

57, 58. Analytical Mechanics. Vectors, centroids, flexible cords, friction, systems of particles and rigid bodies, equilibrium on a smooth or rough plane curve, skew curve or surface, centres of gravity, work, attraction and potential, stable and unstable equilibrium; velocity, acceleration, relative motion, rectilinear and curvilinear motion, motion in resisting media, law of gravitation, central orbits, constrained motion, pendulums, rotary motion, energy, dynamics of rigid bodies, impact. Two hours per week.

61, 62. Celestial Mechanics. Curvilinear motion, central orbits, derivation of Newton's law; determination of the orbit from the law of force; potential and attraction of bodies; the problem of two bodies; the problem of n bodies; the problem of three bodies; Lagrangian straight line and equilateral triangular solutions of the three body problem, surfaces of zero relative velocity, etc.; geometrical and analytical consideration of perturbations. Moulton, *Introduction to Celestial Mechanics*, (Macmillan Co., New York). Three hours per week.

ACTUARIAL SCIENCE

71, 72. Business Mathematics. Arithmetical progression; geometrical progression; theory and use of logarithms; interest and discount; equation of payments; annuities; sinking funds; amortization of debts; amortization schedules; capitalized cost; valuation of bonds; depreciation; exchange. Text to be announced. Tables from Mathematics of Investment, W. L. Hart. Two hours per week.

73, 74. The Mathematical Theory of Investment. Interest and discount; equation of payments; annuities certain; amortization of debts; amortization schedules; valuation of bonds; depreciation; building and loan associations; elementary theory of probability; life annuities; net premiums for simple forms of insurance policies; reserves; valuation; gross premiums. Mathematics of Finance, Rietz, Crathorne and Reitz (Henry Holt & Co.); Tables from Mathematics of Investment, W. L. Hart (D. C. Heath & Co.). Reference: Institute of Actuaries Text Book, Part 1. Two hours per week.

75. Theory of Probability. The general theory of probability; inverse probability; the mortality table; probabilities of life; expectations of life; survivorship probabilities; formulae for the law of mortality. Hall and Knight's Higher Algebra; Life Contingencies, by E. F. Spurgeon (C. & E. Layton). Two hours per week.

76. Statistics. The theory of statistics; statistical applications of life tables. Introduction to the theory of statistics, G. Udny Yule (Chas. Griffin & Co., London). Two hours per week.

77. Finite Differences. A course of lectures on the Calculus of Finite Differences and the theory of operators. Fundamental difference forms; factorial expansions; symbols of operation; Herschel's and MacLaurin's Theorems; interpolation formulae; approximations, mechanical quadratures, finite integration, Euler-Maclaurin sum series, Lubbock's, Woolhouse's and Hardy's formulae, convergency, difference equations. Calculus and Probability, by A. Henry (C. & E. Layton). Reference: Burn and Brown, The Elements of Finite Differences. Two hours per week.

78. Principles of Life Insurance. Applications of the Calculus and Finite Differences to life contingencies. Life annuities; classification of policies; calculation of net premiums, loading, reserves, surplus, dividends, participating and non-participating policies; surrender values; policy loans; policy contracts; actuarial selection of risks; substandard lives; fraternal and assessment insurance; industrial insurance; group insurance; governmental supervision. Life Contingencies, by E. F. Spurgeon (C. & E. Layton). Reference: Notes on Life Insurance, by E. B. Fackler (The Spectator Co., New York). Two hours per week.

80. The Theory of Errors and Method of Least Squares. See Applied Mathematics, Course 54.

ASTRONOMY

89. Spherical Trigonometry. Derivation of formulae, solution of the spherical triangle, areas of spherical triangles and polygons, applications to practical problems in geodesy and astronomy. Moritz's Spherical Trigonometry (Wiley & Sons). Two hours per week.

91, 92. General Astronomy. The constellations; the telescope; systems of co-ordinates; problems of the earth; Kepler's laws; gravitation; tides; moon; eclipses; time; solar system; comets and meteors; sun; stars; nebulae; evolution of solar system; spectrum analysis. Moulton, *Introduction to Astronomy*, (Macmillan & Co., New York). Two hours per week lectures. One hour per week laboratory work or evening observations.

93. Descriptive and General Astronomy. A short course specially devoted to those parts of astronomy necessary in surveying. The shape and motions of the earth; the constellations; systems of co-ordinates; refraction; aberration; parallax, eclipses; time, equation of time, conversion of time. Moulton, *Introduction to Astronomy*. Two hours per week. Evening observations.

96. Mathematical and Practical Astronomy. The solution of the astronomical triangle; time; conversion of time; the ephemeris; determination for any date of the apparent places of stars from the star catalogues; corrections for refraction, parallax, diurnal aberration and dip, to be applied to observed co-ordinates; description and working principles of the sextant, transit theodolite, observatory transit, and zenith telescope; the errors of these instruments and methods of dealing with them; methods of determining latitude, time, longitude and azimuth; practical observations and their reduction. Two hours per week.

97, 98. Celestial Mechanics. See Applied Mathematics, Course 61, 62.

GRADUATE COURSES

The following courses in graduate study will be offered from time to time. A selection will be made at the beginning of each session to meet the needs and qualifications of students desiring such work.

Algebraic Invariants. *Professor MacLean.*

Theory of Functions of a Real Variable. *Professor MacLean.*

Theory of Numbers. *Professor MacLean.*

Elliptic Integrals and Fourier Series. *Professor MacLean.*

Calculus of Variations (Elementary Course). *Professor Wilson.*

History of Mathematics. *Professor Wilson.*

Vector Analysis. *Professor Wilson.*

Theory of Functions of a Complex Variable. *Professor Wilson.*

Celestial Mechanics, I and II. *Assistant Professor Warren.*

Actuarial Science. *Assistant Professor Warren.*

Mathematical Theory of Statistics. *Assistant Professor Warren.*

Modern Analytical Geometry. *Assistant Professor Nowlan.*

Advanced Theory of Conics. *Assistant Professor Nowlan.*

Higher Plane Curves. *Assistant Professor Nowlan.*

Modern Higher Algebra. *Assistant Professor Nowlan.*

DEPARTMENT OF PHILOSOPHY AND PSYCHOLOGY

Rupert C. Lodge, M.A. *Professor*
 Henry W. Wright, B.A., Ph.D. *Professor*

Philosophy II—Course 1, 2. Also course 1a, 2a, which is not offered in the University but may be offered in the affiliated colleges.

Philosophy III—Either 3, 4, or 7, 8, combined with either 5, 6, or 9, 10.

Fourth Year Arts—Major and Minor—Courses 11, 12 with either 13, 14; 15, 16, or 15, 16, 17, 18.

General Course—Courses 11 or 13, 14, or 15, 16, or 17, 18.

Full Course—Courses 11, 12; 15, 16; 17, 18; 21, 22, and 29, 30, or 31, 32.

Other combinations may be permitted by the examiners in Philosophy.

N.B.—For key to system of numbering courses, see page 4.

1, 2. Introductory Psychology. Pillsbury's Essentials of Psychology. First Term: chapters I-VII. Second Term: remaining chapters. Two hours a week. *Professors Lodge and Wright.*

1a, 2a. Ethics. Wright's Self-Realization. Two hours a week.

3, 4. Logic. Lodge's Introduction to Modern Logic. First Term: Parts I and II to the end of chapter XV. Second Term: chapter XVI to the end of Part III. Two hours a week. *Professor Lodge.*

5, 6. History of Philosophy. (Ancient). Bakewell, Sourcebook in Ancient Philosophy; Plato, Republic, omitting Bks. VIII-IX, Aristotle, Ethics, omitting Bks. VIII-IX; Rogers, Student's History of Philosophy, First Term: to end of Plato. Second Term: Aristotle to end of Ancient Period. Two hours a week. *Professor Lodge.*

7, 8. Social Psychology. First Term: MacDougall's Social Psychology. Second Term: Wright's Moral Standards of Democracy. Two hours a week. *Professor Wright.*

9, 10. Psychology with Experiments and Demonstrations. Woodworth's Psychology. Two hours a week. *Professor Wright.*

11, 12. History of Philosophy. (Modern) Rand, Modern Classical Philosophers; Selections from Russell, Problems of Philosophy; Bradley, Appearance and Reality; James, Pragmatism; Dewey, Creative Intelligence; Varisco, The Great Problems; Bergson, Introduction to Metaphysics, etc.; Rogers, Student's History of Philosophy. First Term: Bruno to Kant (not including Kant). Second Term: Kant to the Present Day. Four hours a week. *Professor Lodge.*

13, 14. Abnormal Psychology. Two hours a week. *Professor Lodge.*

15, 16. Psychology of Religion. First Term: Pratt's The Religious Consciousness. Second Term: Wright's Faith Justified by Progress, and Hoernle's Matter, Life, Mind and God. Two hours a week. *Professor Wright.*

17, 18. **Problems of Philosophy.** Cunningham, Problems of Philosophy. Two hours a week. *Professor Wright.*

Other undergraduate courses, instruction in which is not provided at the University, but which may be studied for the B.A. Degree:

19, 20. **History of Ethics.** Rand, Classical Moralists; Sidgwick, Outline of History of Ethics. First Term: to end of Wollaston. Second Term: Butler to end. Four hours a week.

21, 22. **Systematic Ethics.** First Term: Dewey and Tufts, Ethics. Second Term: Rashdall, Theory of Good and Evil. Four hours a week.

23, 24. **Philosophy of Plato.** First Term: Euthyphro, Apology, Crito, Phaedo, Protagoras, Gorgias, Euthydemus, Alcibiades I & II, Hippias Major and Minor, Charmides, Laches, Lysis, Menexenus, Symposium (Banquet), Phaedrus, Ion, in the translation and with the Introductions of Jowett, and with the relevant portions of Zeller's Plato. Second Term: All the remaining Dialogues, in the translation and with the Introductions of Jowett, and with the relevant portions of Zeller's Plato. Four hours a week.

25, 26. **Philosophy of Locke.** First Term: Books I-II of the Essay, in Fraser's edition, including the Introduction and Notes, and with the relevant portions of J. Gibson's Locke's Theory of Knowledge. Second Term: The Conduct of the Understanding, and Books III-IV of the Essay, with Fraser's Notes, and with the relevant portions of Gibson's Locke's Theory of Knowledge. Four hours a week.

27, 28. **Philosophy of Religion.** Galloway, Philosophy of Religion. Two hours a week.

29, 30. **Philosophy of Berkeley and Hume.** First Term: Berkeley, Principles of Human Knowledge, and Three Dialogues between Hylas and Philonous (Fraser's Edition), and A. C. Fraser, Berkeley. Second Term: Hume, Enquiry Concerning the Human Understanding (edited by Green and Grose). Four hours a week.

31, 32. **Philosophy of Kant.** First Term: Watson's Selections from Kant, to the end of the Critique of Pure Reason, together with the relevant portions of Watson's Kant's Philosophy Explained. Second Term: The whole remaining portion of Watson's Selections, and Kant's Philosophy Explained. Four hours a week.

GRADUATE COURSES

33, 34. **Philosophy of Religion.** *Professor Wright.*

34, 35. **History of Ethics.** *Professor Lodge.*

Students intending to take graduate work in Philosophy should in all cases consult the Examiners in Philosophy, in order to ascertain what type of problem they are fitted to investigate.

Note—Courses 9-10 and 13-14 (which together with 1-2, 7-8, and 15-16, constitute a minor in Psychology) involve laboratory practice and hence cannot be taken extra-murally.

DEPARTMENT OF PHYSICS

Frank Allen, M.A., Ph.D., LL.D., F.R.S.C.....	Professor
R. K. McClung, M.A., D.Sc., F.R.S.C.....	Assistant Professor
J. F. T. Young, M.A., Ph.D.....	Assistant Professor
A. J. Fleming, B.Sc.....	Demonstrator
T. E. Babb.....	Demonstrator
H. A. Blair.....	Demonstrator

Physics I—Courses 1, 2; 3, 4.

Physics IA—Courses 1, 2; 3, 4; 3a, 4a.

(Qualified students may be exempted from laboratory courses 3, 4 on recommendation of the Department of Physics.)

Physics II—Courses 7, 8; 15, 16. (Prerequisite, Physics I or Physics IA).

Physics III—Courses 9, 10; 17, 18. (Prerequisite, Physics II).

Physics IV—Courses 25, 26; 27, 28. (Prerequisite, Physics III).

Second Year Arts and Science, Group 2—Courses 5, 6.

Fourth Year Science—Courses 25, 26; 23, 24; and 27, 28.

Second Year Pharmacy—Courses 1, 2; 3, 4.

First Year Pharmacy (Degree Course)—Courses 1, 2; 3, 4.

Second Year Pharmacy (Degree Course)—Courses 7, 8; 15, 16.

First Year Engineering—Courses 11, 12; and 19, 20.

Second Year Engineering—Courses 13, 14; and 21, 22.

Third Year Engineering (Electrical)—Courses 23, 24.

First Year Architecture—Courses 1, 2; 3, 4.

Second Year Architecture—Courses 11, 12.

The following courses are designed to give a consecutive treatment of both Theoretical and Practical Physics covering four years for students in Arts and Science.

Physics I—Courses 1, 2; and 3, 4.

Physics II—Courses 7, 8; and 15, 16.

Physics III—Courses 9, 10; and 17, 18.

Physics IV—Courses 25, 26; and 27, 28.

***1, 2. General Physics.** An introductory lecture course, illustrated by experiments, covering, in the first term, Mechanics, Hydrostatics and Heat, and, in the second term, Magnetism, Electricity, Radioactivity, Sound and Light. No text book is employed, but the student should read some elementary text book such as Gage's Principles of Physics (Goodspeed), or Practical Physics, by Millikan and Gale. Three hours per week. *Professor Allen.*

3, 4. General Physics Practical). A laboratory course to accompany lecture courses 1, 2. It is intended that students shall acquire facility in the use of physical apparatus, in making records and in computing results from the data obtained. A special laboratory note-book must be kept

*A knowledge of Trigonometry is highly desirable in the study of Physics. Students may obtain this in Mathematics IA or Mathematics IIA.

by each student and must contain complete details of all experimental work. The note-book will be examined in giving credit for the course. Text book, *Laboratory Physics* (Millikan, Gale, Bishop). One practical period per week. *Assistant Professor Young.*

3a, 4a. **General Physics (Practical).** A laboratory course to accompany lecture courses 1, 2, but of a more advanced character than course 3, 4. One practical period per week. *Assistant Professor Young.*

5, 6. **General Physics.** A lecture course treating specially those principles which are of particular service in Medicine. This course is intended for students of the Second Year Arts and Science, Group 2. Two hours per week. *Assistant Professor McClung.*

7, 8. **Mechanics, Properties of Matter, Heat and Sound.** An elementary but more detailed treatment of these subjects than course 1, 2. Prerequisites, courses 1, 2 and 3, 4 or their equivalent. Text books, *The Tutorial Physics*, *A Text-book of Physics* (Watson). Three hours per week. *Assistant Professor Young.*

9, 10. **Electricity, Magnetism and Light.** This course is similar in character to course 7, 8. The same text books are continued. Three hours per week. *Professor Allen.*

11, 12. **Heat, Light and Sound.** This course is designed to meet the requirements of Engineering students of the First Year. Two hours per week. *Assistant Professor McClung.*

13, 14. **Electricity and Magnetism.** This course is designed to meet the requirements of Engineering students of the Second Year. Two hours per week. *Assistant Professor McClung.*

15, 16. **Mechanics, Heat and Sound.** A laboratory course in the theory and methods of physical measurements. Students are to perform an extensive series of experiments, and the results of each experiment are to be presented in a suitable report. Whenever possible, graphical methods are to be used. It is highly desirable that students should have an elementary knowledge of Analytical Geometry and Calculus. One practical period of three hours per week for each student. *Assistant Professor McClung and Demonstrators.*

17, 18. **Electricity, Magnetism and Light.** A laboratory course similar in character and method to course 15, 16. One practical period of three hours per week for each student. *Assistant Professor McClung and Demonstrators.*

19, 20. **Mechanics, Heat, Light and Sound.** A laboratory course similar in character and method to course 15, 16, especially for Engineering students. One practical period of three hours per week under the direction of *Assistant Professor McClung.*

21, 22. **Electricity and Magnetism.** A course similar to course 17, 18, especially for Engineering students. One practical period of three hours per week under the direction of *Assistant Professor McClung.*

23, 24. **Electrical Measurements.** This course comprises a more advanced study, both theoretical and practical, of electrical measurements, and is especially suited to students in Electrical Engineering. It

will involve the use of electrical standards, quantitative measurements of capacity of condensers, self and mutual induction, magnetic induction and hysteresis, potentiometer measurements, high and low resistance and photometry. *Assistant Professor McClung.*

25, 26. Electricity, Light and Radioactivity. A course of lectures designed to cover the modern theory of the atom. Four hours per week. *Assistant Professor Young.*

27, 28. An advanced general laboratory course to be taken in connection with course 25, 26. One period per week. *Professor Allen.*

GRADUATE COURSES

The Department will arrange courses for suitably prepared students in Advanced Optics, Mathematical Theory of Electricity and Magnetism, Physiological Optics and Acoustics, and the Restricted Theory of Relativity with physical applications.

The laboratory and its equipment are available whenever possible to anyone desirous of engaging in original investigation in Physics.

TEXT BOOKS

A Text Book of Physics (Watson); The Tutorial Physics; Gage's Principles of Physics (Godspeed); General Physics for Students (Edser); Heat for Advanced Students (Edser); Light for Students (Edser); Electricity and Magnetism (Hadley); A Text Book of Physics (Duff).

DEPARTMENT OF PHYSIOLOGY AND PHARMACOLOGY

V.H.K. Moorhouse, M.C., B.A., M.B.....*Professor and Director of Department*
 K. J. Austmann, M.A., M.D.....*Assistant Professor*
 M. S. Loughheed, B.A., M.D., C.M., B.Sc.....*Lecturer in Physiology*
 W. G. Mackersie, M.B., B.Sc. (Med.).....*Lecturer in Pharmacology*

Physiology IV (First offered in 1926-27)—Courses 1, 2; 5, 6.

Physiology V (First offered in 1927-28)—Courses 9, 10.

First Year Medicine—Courses 1, 2; 3, 4.

Second Year Medicine—Course 8.

Third Year Medicine—Courses 11, 12.

Third Year (Combined B.Sc., M.D.)—Courses 1, 2; 3, 4.

Fourth Year Science—Courses 9, 10.

N.B.—For key to system of numbering courses, see page 4.

1, 2. Physiology. (For students of the First Year in Medicine, Third Year B.Sc.-M.D. and Fourth Year honors Science.) A course of lectures

and tutorial classes dealing with the general physiology of the cell and of simple tissues. The functions of special tissues. The contractile tissues. Simple reflex reactions affecting activity of contractile and other tissues. The properties of blood and lymph. The functions of the heart and blood vessels and the circulation of blood. The mechanics of respiration and the regulation of respiratory movements. Mechanical and secretory functions in digestion etc. Textbooks: W. H. Howell, Textbook of Physiology (W. B. Saunders & Co.); E. H. Starling, Human Physiology (J. & H. Churchill). Reference books: W. M. Bayliss, Principles of General Physiology (Longmans & Co.); J. J. R. MacLeod, Physiology and Biochemistry in Modern Medicine (Mosby & Co.). Two one-hour periods per week throughout the session.

3, 4. Practical Physiology. (For students of the First Year in Medicine, Third Year B.Sc.-M.D.). An experimental course in animal and human physiology. Demonstrations of special experiments are arranged during this course. The work is outlined in practical notes compiled by the department. Textbooks as for courses 1, 2. Reference books as advised during the course. Two three-hour periods per week throughout the session.

5, 6. Practical Physiology. (For Fourth Year honors Science). Extension of the course outlined in 3-4 in special work. Four hours per week are to be devoted to Histology (see announcement of Dept. of Anatomy). The total time spent to be about 14 hours per week, including instruction in Histology.

8. Special Physiology. (For students of the Second Year in Medicine). A lecture and demonstration course in the physiology of the central nervous system, autonomic nervous system and the special senses. Textbooks as advised for course 1, 2. Reference books: Sherrington, The Integrative Action of the Nervous System, Yale University Press; Langley, The Autonomic Nervous System; Gaskell, The Involuntary Nervous System. Two one-hour periods per week from March 1st until the end of the session.

9, 10. Advanced Physiology. (For Fourth Year Science (old regulation) and Fifth Year honors Science students). A course of instruction demonstration and the assignment of reading in physiology for students who have completed courses 1, 2; 5, 6. Experimental work in special problems in physiology. The time spent amounts to 16 to 20 hours per week throughout the session.

11, 12. Pharmacology. (For students of the Third Year in Medicine). The pharmacodynamics of related chemical compounds and other drugs. The study of groups of drugs having similar pharmacological and therapeutic effects. An instructional and experimental course amounting to about 90 hours. Textbooks: Cushny, Pharmacology and Therapeutics. Reference books: Sollman, Manual of Pharmacology; Clark, Applied Pharmacology; Meyer and Gottlieb, Experimentelle Pharmakologie.

Breakages. A deposit of \$5.00 is paid to the Registrar at the beginning of each session, and all breakages must be made good from this.

DEPARTMENT OF POLITICAL ECONOMY AND POLITICAL SCIENCE

Archibald Brown Clark, M.A.....	<i>Professor</i>
Reginald F. Jones, M.A.....	<i>Assistant Professor</i>
George Alexander Elliott, B.A.....	<i>Assistant</i>

Political Economy II—Courses 1, 2.

Political Economy III—Courses 3, 4.

Fourth Year Arts—Major—Courses 7, 8; 9, 10; 11, 12.

Minor—Courses 13, 14; 17, 18.

Graduate Courses—Courses 19, 20; 21, 22; 23, 24.

Special Courses—Accountancy, 5, 6.

Sociology III—Courses 17, 18.

Fourth Year Arts Sociology—Minor—Courses 17, 18.

N.B.—For key to system of numbering courses, see page 4.

1, 2. **Economics.** A half-subject, elementary course on the Consumption, Production and Distribution of Wealth. *First Term:* Ely and Wicker, "Elementary Principles of Economics," Book I and Book III, Part I, Part II, chapters 14 to 17. *Second Term:* Ely and Wicker, Book III, Part II, chapters 18 to 20, and Part IV.

Note: This half-subject course in *not* necessary as a preliminary to Courses 3 to 20, but *is* necessary for Courses 21 to 24 (Sociology).

3, 4. **Economic Theory.** A survey of the leading principles of Political Economy, together with the chief landmarks in the history of Economic Theory and the outlines of English Economic History. A more intensive study of Wages, Profits, Rent, Value, Money, Banking, International Trade and the Foreign Exchanges. The student is expected to read, in supplement of the lectures, Nicholson, "Elements of Political Economy," Books I to III; Mill, "Principles of Political Economy," Books I to III; Johnson, "Introduction to Economics;" L. L. Price, "Political Economy in England;" A. B. Clark, "The Foreign Exchanges;" E. P. Cheyney, "Industrial and Social History of England," and the relevant parts of works that may be referred to in the lectures. Four hours a week.

5, 6. **Political Economy** (for Accountants, Bankers and Business Men). A general survey of the principles governing Production and Distribution of Wealth; and a more intensive study of the Theory of Exchange, including Value, Money, Credit, Banking, the Money-market, the Rate of Interest and the Rate of Discount, International Trade, the Foreign Exchanges, and the Stock Exchange.

Reading in supplement of the lectures: Nicholson, "Elements of Political Economy," a general knowledge of Books I and II, with a more exact knowledge of Book III. MacGibbon, "Introduction to Economics;" Withers, "The Meaning of Money;" A. B. Clark, "The Foreign Exchanges;" Two hours a week.

7, 8. **Economic Theory.** (a) A critical study of some of the more difficult problems in Economic Theory and the History of Theory, and (b) Application of Economic Principles to the more important present-day Economic Problems. Marshall, "Industry and Trade." Two hours a week.

For reading in supplement of the lectures, references will be given to the works of the leading authorities on the subjects under discussion.

9, 10. Public Finance. The characteristics and principles of Taxation and Public Expenditure; The Incidence of Taxation; Provincial and Municipal Taxation in Western Canada; National Credit and National Debts. Adam Smith, "Wealth of Nations," Book V, chapters 2, 3; Mill, "Principles," Book V, chapters 2-7; Nicholson, "Principles," Vol. III, Book V, chapters 5-13, 15-18; Hunter, "Outlines of Public Finance," Seligman, "Essays in Taxation," and certain chapters in the same author's "Shifting and Incidence of Taxation," and in Bastable's "Public Finance." Three hours a week.

11, 12. Political Science. A critical study of Political Theories in their relation to actual political development, and a survey of Comparative Politics. The Nature and Origin of the State; Forms of Government; The Sphere of the State; Principles, Methods and Limitations of Governmental Interference; The Organisation of Government; Distribution of Powers.

For reading in supplement of the lectures, students will be referred to: Pollock, "History of the Science of Politics"; I. J. C. Brown, "English Political Theory"; Hobbes, "Leviathan," Part I, chapters 13-15, Part II; Locke, "Civil Government," Book II; Rousseau, "Contrat Social" (Eng. Trans.); Mill, "On Liberty," and "Principles of Political Economy," Book V, chapters I, 8-11; Adam Smith, "Wealth of Nations," Book V, chapter I; Nicholson, "Principles of Political Economy," Vol. III, Book V, chapters 1 to 4; Hobhouse, "Liberalism"; E. Jenks, "The State and the Nation," and to the relevant parts of Maine, "Early History of Institutions"; Sidgwick, "Elements of Politics" and "Development of European Polity"; Mill, "Representative Government"; Bagehot, "English Constitution"; Lowell, "The Government of England" and "Governments and Parties in Continental Europe"; Bryce, "The American Commonwealth," "Studies in History and Jurisprudence" and "Modern Democracies"; Keith, "Responsible Government in the Dominions" and "Imperial Unity and the Dominions". Two hours a week.

13, 14. (Minor) Government and Public Finance. A study of the Economic Functions of Government and Public Finance. First term: Adam Smith, "Wealth of Nations," Book V, chapters 1, 2; Mill, "Principles of Political Economy," Book V, chapters 1, 2, 8 to 10; Nicholson, "Principles of Political Economy," Vol. III, Book V, chapters 1, 2, 5 to 9, 14, 19; Hunter, "Public Finance," chapters 1 to 7, 16, or Robinson, "Public Finance," Chapters 1 to 4. Second term: Adam Smith, Book V, chapters 1 and 2 (revision); Mill, Book V, chapters 3 to 7 and 11; Nicholson, Book 5, Chapters 3, 4, 10 to 13, 15 to 18; Hunter, "Public Finance," chapters 8 to 21, or Robinson "Public Finance," chapters 5 to 10. Four hours a week.

15, 16. Sociology (Minor). Character and Scope of Sociology, and its relations to Biology and Psychology, to History and to the various social sciences. Methods of Investigation. History of Sociology. The Social Forces, or the Dynamic Element in Society: Preservative, Reproductive, Aesthetic, Emotional, Intellectual. Direction and Control of the Social Forces. Forms of Association. Processes of Adjustment. Theory of Social Progress. Socialization of Achievement. Text books: J. Q. Dealey, "Sociology: Its Development and Applications;" Carver, "Sociology and Social Progress." Other works recommended: Giddings, "Principles of Sociology;" Spencer, "The Study of Sociology;" Bagehot, "Physics and Politics;" Muller-Lyer, "History of Social Development;" E. Durkheim, "Les Regles de la Methode Sociologique;" Four hours a week. *Assistant Professor Jones.*

17, 18. **Applied Sociology** (Minor). Social Institutions: Family, Church, State, Education as a part of the Social Heritage, Voluntary Association, etc. Population, its Growth and Distribution. Immigration and Racial Problems. Social Pathology: Mental Deficiency, Juvenile Defectives; Crime; Poverty, and the problems to which it gives rise. Social Improvement. Text books: J. Q. Dealey, "Sociology; Its Development and Applications"; James Ford, "Social Problems and Social Policy." Other works recommended: Lester F. Ward, "Applied Sociology;" W. G. Sumner, "Folkways;" Helen Bosanquet, "The Family;" Barth, "Die Philosophie der Geschichte als Soziologie," Vol. I; A. W. Small, "General Sociology." Four hours a week. *Assistant Professor Jones.*

GRADUATE COURSES

(Lectures may not be offered on these Courses in 1925-26.)

19, 20. **Political Economy** (Principal Subject). Marshall, "Principles of Economics." Haney, "History of Economic Thought"; Keynes, "Scope and Method of Political Economy"; R. G. Hawtrey, "Currency and Credit"; Seligman, "Shifting and Incidence of Taxation." (Two Papers and Thesis.)

21, 22. **Economic History** (Subordinate Subject.) Nicholson, "Rents, Wages and Profits in Agriculture"; Taussig, "Free Trade, The Tariff and Reciprocity"; Fay, "Life and Labour in the Nineteenth Century." (One Paper.)

23, 24. **Political Science** (Subordinate Subject). Dicey, "Law and Public Opinion in England"; MacCunn, "Six Radical Thinkers"; E. Barker, "Political Thought in England from Herbert Spencer to the Present Day"; C. E. M. Joad, "Modern Political Theory." (One Paper.)

Note.—Candidates for the M.A. Degree in this Department may combine Political Economy with *either* (a) Economic History or (b) Political Science.

DEPARTMENT OF ZOOLOGY

Chas. H. O'Donoghue, D.Sc., F.Z.S., F.R.S.C.	<i>Professor</i>
C. F. Curtis Riley, M.A., M.S.	<i>Assistant Professor</i>
Ferris Neave, B.Sc.	<i>Lecturer</i>
Leonard B. Clark, B.A.	<i>Demonstrator</i>
Ralph D. Bird, B.Sc.	<i>Demonstrator</i>
Ruby Bere	<i>Demonstrator</i>

Zoology II—Courses 1, 2; 5, 4.

Zoology II A—Courses 9, 10; 11, 12.

Zoology III—Courses 13, 14; 15, 16.

Fourth Year Arts—Courses 21, 22; 23, 24.

Fourth Year Science—Courses 21, 22; 23, 24; 26, 28, 29, 31.

First Year Pharmacy—Courses 5, 7.

1, 2. **Junior Course in Zoology.** A course of lectures dealing with the general principles of zoology; the outlines of the morphology and anatomy

of a progressive series of animal types; the elements of animal physiology, cytology, histology and bionomics; the principal phenomena of reproduction, behaviour, ecology, development and life histories. Arranged for second year Arts and Science students. Text book: Hegner, *College Zoology*. Two hours per week.

3, 4. Junior Course in Practical Zoology. A course of laboratory exercises and experiments to accompany and illustrate the foregoing, providing a general introduction to zoological laboratory methods. Two and a half hours alternate weeks for Arts and Science students.

5. Elementary Course in Zoology. A general account of the frog treated as an introduction to the anatomy, physiology and histology of a vertebrate type. Adapted for First Year Pharmacy students.

Text book: O'Donoghue, *Introduction to Zoology*. Two hours per week.

7. Elementary Course in Practical Zoology. A series of practical exercises intended to accompany the preceding lecture course (5). Two hours per week.

9, 10. Zoology for Second Year Arts and Science. Group 2. A course of lectures dealing with the anatomy and physiology of a progressive series of animal types (mainly vertebrate); the elements of animal histology and cytology; the main phenomena of reproduction; development and life histories and an elementary treatment of evolution, heredity and variation.

Text book: O'Donoghue, *Introduction to Zoology*.

11, 12. Practical Zoology for Second Year Arts and Science. Group 2. A course of laboratory work to accompany the foregoing, providing an introduction to general zoological methods. Five hours per week.

13, 14. Intermediate Course in Zoology. A course treating of the general fundamental principles of zoology: morphology, and certain aspects of the elements of physiology, ecology, behaviour, embryology, zoological distribution and genus; a study will be made of selected invertebrate animal types and of at least one vertebrate, probably the frog. The course is arranged for third year students. Three hours per week.

15, 16. Intermediate Practical Course in Zoology. A course of practical work to accompany the foregoing lectures including the examination of certain types and the carrying out of experiments. Three hours per week.

17, 18. Comparative Anatomy of the Chordata. A general account of the structure and classification of the Chordata including the evolution of the main groups. Parker and Haswell's *Textbook of Zoology*. Two hours per week. (Not given in 1925-26).

19, 20. Practical Course in the Comparative Anatomy of the Chordata. A laboratory course accompanying the above and illustrating the salient features of the anatomy, osteology and histology of the Chordata. Six hours per week. (Not given in 1925-26).

21, 22. Comparative Anatomy of the Invertebrata. A general account of the structure and classification of the Invertebrata including larval forms and the light they throw on the relationships of the various groups. Parker and Haswell's *Textbook of Zoology*. Two hours per week.

23, 24. Practical Course in the Comparative Anatomy of the Invertebrata. A laboratory course accompanying the above and illustrating the salient features of the gross morphology, anatomy and histology of the Invertebrata. Six hours per week.

25. Animal Ecology. A course treating of the relations of animals to the various organic and inorganic factors of their habitat and environment. Such problems as the influence of light, temperature, moisture, gravity, water currents, etc., will be considered. Planned for third and fourth year Science students. One seminar or lecture per week.

26. Cytology. The general structure and functions of the cell, with special reference to mitosis in the somatic and germ cells and its bearing on development and heredity. Two hours per week.

27. Animal Ecology Practical Course. A series of field excursions (if possible) and laboratory exercises to accompany and illustrate the foregoing lectures. Three hours per week.

28. Cytology, Practical. A course of practical work in connection with the above, serving as an introduction to the technique necessary for the investigations of cytological problems. Three hours per week.

29. Animal Behaviour. A course treating of the simpler forms of animal responses, such as tropisms, reflexes, habits and instincts, with some attention given to intelligent acts. The viewpoints of such men as Loeb, Jennings, Lloyd Morgan, Lewis, Mills, Thorndyke, Bohn will receive consideration. One seminar or lecture each week.

30. Embryology of the Vertebrata. The outlines of the embryology of the higher Chordata studied in a series of selected types. One hour per week.

31. Animal Behaviour, Practical. A series of practical exercises to illustrate the preceding lectures.

32. A Practical Course in the Embryology of the Vertebrata. A laboratory course accompanying the above, providing an introduction to embryological technique and an opportunity of studying series of preparations. Three hours per week.

34. Zoogeography. The division of the land masses of the world into regions according to the animals they contain. The distribution of the main groups, and the animals characteristic of the various divisions. The factors encouraging and limiting dispersal; former land connections. continuous areas, barriers, human interference, etc. One hour per week.

35, 36. Advanced Studies. Students in the fourth year of the Science course will be given opportunities for further reading and practical work including the carrying out of independent investigations. Hours by arrangement.

Research. Encouragement will be given to anyone wishing to conduct research and such equipment as is present in the laboratories and library will be available.

Text Books. Advice regarding special text books, reference books and books for supplemental reading will be given in the various senior classes.

BIBLICAL GREEK

(Courses 1, 2; 3, 4; 7, 8; 11, 12 are given only in the affiliated Colleges.)

Biblical Greek I—Courses 1, 2.

Biblical Greek II—Courses 3, 4.

Biblical Greek III—Courses 9, 10; 11, 12.

Fourth Year Arts—Minor—Courses 9, 10; 11, 12.

Courses 1 and 2 (and consequently also 3 and 4) are open only to such students as have not taken Greek for Matriculation.

Nestle's New Testament in Greek and the British and Foreign Bible Society's Old Testament in Greek are convenient texts which can be easily secured. Where annotated texts are desired, the Cambridge Bible in Greek will be found useful.

1, 2. Biblical Greek I. Moulton's First Greek Reader in New Testament Greek will be covered together with the corresponding sections of Moulton's Introduction to New Testament Greek. First term: Moulton's Introduction, Exercises 1 to 27; Second term: Moulton's Introduction completed. Four hours a week.

3, 4. Biblical Greek II. The Book of Acts will be read and training in continuous Greek composition will be given, based on the text read, and with reference to Burton's New Testament Moods and Tenses. Exercises in sight translation of simple Hellenistic Greek will be given from time to time. First term: Acts 1-14. Second Term: Acts 15-28. Four hours a week.

5. Synoptic Gospels. The course will consist of the reading of the Synoptic Gospels in Greek with brief introductory and explanatory notes. Three hours a week.

6. Pauline Epistles and Apocrypha. Reading of Romans, Corinthians 1 and 2, Thessalonians 1 and 2, Judith and the Wisdom of Solomon, with brief introductory and explanatory notes. Three hours a week.

7. History of New Testament Times. The period covered is 165 B.C. to 135 A.D. The prescribed text is W. D. Morrison's The Jews under The Roman Empire (Stories of the Nations). One hour a week.

8. Pauline Epistles and Apocrypha. A course complementary to Course 6. Lectures and reading on the "Introduction" to books read in Course 6. Case, Environment of Early Christianity, and Charles, Between the Old and New Testaments, will form the basis of study. One hour a week.

9. New Testament Epistles and Patristics. Reading of Philippians, Philemon and Hebrews; also Justin Martyr's Apologies 1. The edition of the latter by Gildersleeve (American Book Co.) is recommended. Three hours a week.

10. New Testament Epistles and Apocrypha. Reading of Timothy 1 and 2; James; Peter 1; and John 1, 2 and 3; also of Ecclesiasticus (The Wisdom of Jesus the Son of Sirach). Three hours a week.

11. Primitive Christianity. Harnack's *Mission and Expansion of Christianity*, Vol. 1 (Putnam), will form the basis of study. One hour a week.

12. The Graeco-Roman World. Cumont's *Oriental Religions in Roman Paganism* (Open Court, Chicago), will form the basis of study. One hour a week.

HEBREW

Instruction in Hebrew is provided only in the affiliated colleges.

Hebrew I—Courses 1, 2.

Hebrew II—Courses 3, 4 (Prerequisite, Hebrew I).

Hebrew III—Courses 5 or 7 or 9 with 15 or 25 and 6 or 8 or 10 with 16 (Prerequisite, Hebrew II).

Fourth Year Arts—Major—Courses 5, 6; 7, 8; 15, 16, and any four hours from 9a, 9b, 10a, 10b; 25, 26.

General—Courses 5 or 7 or 9 with 16 or 26.

N.B.—For key to system of numbering courses, see page 4.

1. Harper's Method and Manual (Smith). Exercises 1 to 17, inclusive. Four hours.

2. Harper's Method and Manual (Smith). Exercises 18 to 30, inclusive. Four hours.

3. Harper's Method and Manual (Smith). Exercises 31 to 44, inclusive. Four hours.

4. Harper's Method and Manual (Smith). Exercises 45 to 56, inclusive, and the reading of Ruth, chapters 1, 2, 3, 4. Four hours.

5. **Historical Hebrew.** I Samuel, chapters 9, 10, 11, 12, 13, 14; II Samuel, chapters 1, 2, 3, 4. Century Bible. Two hours.

6. **Prophetic Literature.** Isaiah, chapters 6, 7, 8, 9, 10, 11, 12; Hosea, chapters 1, 2, 3, Century Bible, Cambridge Bible. Two hours.

7. **Legal Codes.** Exodus, chapter 34; Deuteronomy, chapters 5, 6, 12, 13, 14, 15, 16; Leviticus, chapters 23, 24, 25, Century Bible. Two hours.

8. **Prophetic Literature.** Ezekiel, chapters 2, 3, 8, 9, 10, 40, 41, 42, 43, 44, Century Bible. Two hours.

9a. **Hebrew Song and Story.** Exodus, chapter 15; Judges, chapter 5; Genesis, 49; II Samuel, chapter 7; Genesis, chapters 22, 24. One hour.

9b. **Apocalyptic Literature.** Zechariah, chapters 9, 10, 11, 12, 13, 14. One hour.

10a. **Poetic Literature.** Psalms, 8, 9, 10, 24, 45, 51, 79, 125, 149; Proverbs, chapter 30. One hour.

10b. **Wisdom Literature.** Proverbs, chapters 1, 8, 10, 17; Job, 3, 4, 28, 38. One hour.

15. **History.** Early History of Syria and Palestine. Paton or Hall, Ancient History of the Near East. Two hours.

16. **History.** The Hebrew Commonwealth, Bailey and Kent.

17. **Archaeology.** Barton. One hour.

18. **Historical Geography of the Holy Land.** Smith. One hour.

23. **Introduction.** Pentateuch and Historical Books. Eiselen or Gray. Two hours.

24. **Introduction.** Prophets, Poetry and Writings. Eiselen or Gray. Two hours.

25. **Religion of Israel.** Smith. Two hours.

26. **History and Religion of Judaism.** Bailey & Kent, Hebrew Commonwealth, pages 252-368; Peters, Religion of the Hebrews, pages 283-463; Cheyne, Jewish Religious Life After the Exile. Two hours.

Note—Syntactical principles to be mastered in connection with courses 5-10.

ICELANDIC

Instruction in Icelandic is provided only in Wesley College.

Icelandic I—Courses 1, 2; 3, 4.

Icelandic II—Courses 5, 6; 7, 8. (Prerequisite, Icelandic I.)

N.B.—For key to system of numbering courses, see page 4.

1, 2. **Grammar.** Finnur Jónsson, Málfræði. First term, pp. 54-85. Second term, pp. 85-142. One hour a week.

3, 4. **Authors.** First Term: *Islendinga Paettir*, ed. by Þorleifur Jónsson, Rvík. 1904. (1) Auðunar þáttur vestfirska. (2) Gísls þáttur Illuga-sonar. (3) Halldórs þáttur Snorrasonar. (4) Hreiðars þáttur heimiska. (5) Ivars þáttur Ingimundarsonar. (6) Steins þáttur Skaftasonar. (7) Þórarins þáttur Nefjölfssonar. (8) Þorleifs þáttur jarlsskálds. Second term: *Fjalla Eyvindur*, by Jóhann Sigurjónsson. Three hours a week.

5, 7. **Authors.** With grammar in conjunction. (a) Gunnlaugs Saga, Ormstungu. (b) Sæmundar Edda (F. Jónsson), pp. 87-107. Four hours a week.

6, 8. **Authors.** With grammar in conjunction. (a) Sæmundar Edda (F. Jónsson), pp. 1-58, 137-160, 169-173. (b) History of Icelandic literature (F. Jónsson), pp. 63-91. Four hours a week.

RELIGIOUS EDUCATION

*Instruction in Religious Education is provided only in the
Affiliated Colleges*

Religious Education III—Courses 1, 2; 3, 4.

Religious Education IV—Courses 1, 2; 3, 4.

Courses 5, 6; 7, 8; are not offered in 1925-26.

N.B.—For key to system of numbering courses, see page 4.

1. **The Principles of Religious Education.** Texts: Nunn, T. P., *Education: Its Data and First Principles*; Horne, H. H., *Psychological Principles of Education*.

2. **The Psychology of Child Development.** Texts: Norsworthy & Whitley, *Psychology of Childhood*; Kirkpatrick, E. A., *Fundamentals of Child Study*.

3. **History of Education.** Texts: Monroe, *Text Book in History of Education*; Hoyt, *Studies in History of Modern Education*.

4. **Principles of Teaching.** Texts: Strayer, G. D., *A Brief Course in the Teaching Process*; Tralle, H. E., *Dynamics of Teaching*. Reference: Shaver, E. L., *The Project Method in Religious Education*.

5. **The Philosophy of Education.** Texts: Horne, H. H., *The Philosophy of Education*; Coe, G. A., *A Social Theory of Religious Education*.

6. **The Psychology of Adolescence.** Texts: Tracy, F., *The Psychology of Adolescence*; Eggleston, M. E., *Womanhood in the Making*; Fiske, G. W., *Boy Life and Self Government*.

7. **The Development of Religious Education.** Texts: Brown, A., *History of Religious Education in Recent Times*; Meyers, H. H., *History of Religious Education*; Squires, *The Week Day School*; Stout & Thompson, *The Daily Vacation School*.

8. **Curricula and Methods in the Church School.** Texts: Athearn, W. S., *The Church School*; Betts, G. H., *The Curriculum of Religious Education*.

SCRIPTURE

Instruction in Scripture is provided only in the affiliated Colleges.

Scripture III—Courses 1 and 4 or 2 and 3.

Fourth Year Arts—Courses 1 and 4 or 2 and 3.

1. **Old Testament English Scripture.** (a) History as per Hebrew Course No. 15. (b) Criticism and Introduction as per Hebrew Course

Nos. 23a and 23b. (c) English Bible, Revised Version and Kent Historical Bible. The Kings and Prophets of Israel and Judah, Hodder and Stoughton. Four hours.

2. Old Testament English Scripture. (a) History as per Hebrew Course No. 16. (b) Introduction as per Hebrew Course Nos. 24a and 24b. (c) English Bible Revised Version and Kent Historical Bible Heroes and Crises of Early Hebrew History, Hodder and Stoughton. Four hours.

3. New Testament Scripture. The Pauline Epistles. The Life and Letters of St. Paul, by David Smith. St. Paul the Traveller and the Roman Citizen, Ramsay. The Beginnings of the Christian Church, E. F. Scott.

4. New Testament Scripture. Hebrews and the General Epistles. Westminster New Testament Commentary. The Environment of Early Christianity, Angus and The Apostolic Age (McGiffert).

PHILOSOPHY (Latin)

(Instruction in Latin Philosophy is provided only in St. Boniface College)

N.B.—For key to system of numbering courses, see page 4.

Third and Fourth Years

1925-26 and every alternate year.

1, 2. Philosophia Scholastica. First term: Logica, Ontologia, Cosmologia. Second term: Psychologia, Theodicea. Nine hours a week.

3, 4. Monsabré. Oeuvre de Dieu (Conférences, 1875). Une heure par semaine.

3a. Gerard. The Old Riddle and Newest Answer. One hour a week.

4a. Maher, Psychology. One hour a week.

5, 6. Histoire de la Religion. Cauly: Historie de l'Eglise. Une heure par semaine.

7, 8. Histoire de la Philosophie. Vallet, pages 1-310. Premier terme: Philosophie orientale, grecque, romaine, alexandrine, Philosophie des Pères. Second terme: Philosophie Scolastique, Philosophie de la Renaissance. Une heure par semaine.

7a, 8a. History of Philosophy. Turner, pages 1-323. First term: Oriental, pre-Socratic, Socratic and Aristotelian Philosophy. Second term: Post-Aristotelian, Graeco-Oriental, Patristic and Scholastic Philosophy. One hour a week.

9, 10. Physique. Premier terme: Notions de Mécanique, Hydrostatique, Pesanteur, Chaleur. Second terme: Acoustique, Optique, Electricité et Magnétisme. Quatre heures par semaine. Auteur: Branly Physique Générale.

9a, 10a. Physics. First term: Statics, Hydrostatics, Heat. Second term: Sound, Light, Electricity and Magnetism. Four hours a week. Text-book: Goodspeed, Principles of Physics.

11, 12. **General Physics (Practical).** The students perform a series of experiments to illustrate the theoretical principles studied in the lectures. Two hours a week. Text-book: Milliken, Gale and Bishop.

13, 14. **Botany.** Division of Sciences. Comparison of living and non-living beings; differences between animals and plants, plants and minerals. Classification of plants. Cells, tissues, seeds, roots, stems (primary and secondary growth). Buds, leaves, flowers, fruits. Types of Cryptogams. Two hours a week.

Text Books: Andrews, Practical Course in Botany; Dalbis, Anatomie et Phys. vegetales.

15, 16. **Laboratory Course in General Botany.** Two hours a week.

18. **Astronomie Élémentaire.** La terre et ses mouvements, le soleil, la lune, les planètes, les comètes, les étoiles, les nébuleuses, coordonnées celestes, hypothèses cosmogoniques. Deux heures par semaine.

Text Book: Moreux, Cosmographie.

18a. **Elementary Astronomy.** The earth and its motions, the sun, the moon, the planets, comets, stars and nebulae, celestial co-ordinates, cosmogonic hypotheses. Two hours a week.

Text Book: Young, Elements of Astronomy.

Third and Fourth Year, Arts: Latin Philosophy (French-Speaking students): Courses 1, 2; 3, 4; 5, 6; 7, 8; 9, 10; 11, 12; 13, 14; 15, 16; 18.

Third and Fourth Year, Arts: Latin Philosophy (English Speaking students): Courses 1, 2; 3a, 4a; 7a, 8a; 9a, 10a; 11, 12, 13, 14; 15, 16; 18a.

1926-1927 and every alternate year.

1, 2. **Philosophia Moralis.** First term: Generalia Morum Principia, Actus Humani, Lex Naturalis, Hominis Officia et Jura. Second term: Jus Proprietatis, Societas Domestica, Auctoritas, Societas Civilis. Nine hours a week.

3, 4. **Lacordaire, Economie providentielle de la Réparation.** Félix, Le Progrès par la Famille. Une heure par semaine.

3a, 4a. **Rickaby, Ethics, Natural Law, the Family, the State.** Husslein, Social Problems. One hour a week.

5. **Principes d'Education Religieuse.** Cauly: Cours de Religion. Une heure par semaine.

7, 8. **Vallet, Histoire de la Philosophie,** pages 415-546. Premier terme: Philosophie Moderne, 17e siècle. Second terme: 18e et 19e siècle. Une heure par semaine.

7a, 8a. **Turner, History of Philosophy,** pages 324-660. First term: Third period of Scholastic Philosophy. Modern Philosophy to Kant. Second term: From Kant to our time. One hour a week.

9, 10. **Hervé-Bazin, Economie Politique,** Production, Echange, Répartition, Consommation. Second terme: Cathrein, Le Socialisme, sa nature, ses vices radicaux. Une heure par semaine.

9a, 10a. **Burke, Political Economy.** Production, Exchange, Money, Banking, Trade, Consumption. Second term: Cathrein-Gettelmann, Socialism, its Nature, Development, Fundamental Tenets, Impracticability. One hour a week.

11, 12. **Chimie.** Principes élémentaires; éléments et composés; lois des combinaisons; atomes et molécules; acides, bases, sels; propriétés des éléments les plus connus et de leurs principaux composés; principes de l'analyse chimique des sels; introduction à la chimie organique. Quatre heures par semaine. Auteur: Bazin, Chimie Generale.

11a, 12a. **Chemistry.** Fundamental principles of chemistry; elements and compounds; laws of combination; atoms and molecules; acids, bases, salts; introduction to organic chemistry. Four hours a week. Text-books: McPherson and Henderson, Elementary Study of Chemistry; Henderson and Parker, An Introduction to Analytical Chemistry.

13, 14. **Practical Chemistry.** Experiments illustrating general principles and the preparation and properties of substances studied in lectures. One period of three hours per week.

15. **Zoology.** Junior Course in Zoology. Two hours a week.

Text books: Dalbis, Anatomie et Physiologie Animales; Hegner, College Zoology.

17. **Practical Zoology.** A course of Laboratory work to accompany the foregoing, providing an introduction to zoological methods. Two hours a week. Text-book: Marshall, The Frog.

18. **Human Anatomy and Physiology.** Skeleton, Bones, Tissues, Respiration, Nutrition, Digestion, Circulation, Excretion, Nervous System and Sense-organs. Two hours a week.

Text-book: Martin, Human Body.

Third and Fourth Year, Arts: Latin Philosophy (French-Speaking students): Courses 1, 2; 3, 4; 5, 6; 7, 8; 9, 10; 11, 12; 13, 14; 15; 17, 18.

Third and Fourth Year, Arts: Latin Philosophy (English-Speaking students): Courses 1, 2; 3a, 4a; 7a, 8a; 9a, 10a; 11a, 12a; 13, 14; 15; 17, 18.

Students in St. Boniface College proceeding to the Course in Latin Philosophy will take the following course in the First and Second Years:

COURS DE PHILOSOPHIE LATINE

(Pour les élèves de langue française)

DEUXIÈME ANNÉE, 1925-26

Français

Préceptes Littéraires et Exercices. Verest, Manuel de Littérature. Premier terme—L'Art dramatique, Eloquence, première partie; le Débit. Second terme—Eloquence, deuxième partie.

Histoire de la Littérature et Auteurs. Premier terme—Mouchard, Histoire illustrée de la littérature française; Modèles Français, Tomes III et IV, extraits de Lesage, Bernardin de Saint-Pierre et André Chénier;

Racine, Britannicus. Second terme—J. Calvet, Histoire illustrée de la Littérature française, pages 547-725; Procès, Modèles Français, Tomes III et IV: extraits des modernes: V. Hugo, de Musset, de Vigny, Leconte de Lisle, Veuillot, etc.; orateurs: Bossuet, Bourdaloue, Berryer, Montalembert, de Mun.

Latin

Thèmes latins et Versions. Mouchard, Thèmes latins. Ragon, Cent-vingt versions latines.

Auteurs. Premier terme—Cicéron, Pro Murena, Ière partie. Horace, Epîtres. Second terme: Cicéron, Pro Murena, IIe partie; Horace, Satires.

Grec

Thèmes grecs et Versions. Ragon, Thèmes grecs. Ragon, Deux cent versions grecques.

Auteurs. Premier terme—Démosthène, Ière Philippique, Euripide, Hecube, Ière partie. Second terme—Démosthène, IIe Philippique; Euripide, Hecube, IIe partie.

Anglais

Grammaire et Exercices de Thème et Version: Havet, L'Anglais enseigné aux Français. Premier terme—III, Ière partie. Second terme—III, IIe partie.

Auteurs. Premier terme—Macaulay, History of England (morceaux choisis). Second terme—Newman, What is a University? University Life, Athens, The Schoolmen, The Strength and Weakness of Universities, The Second Spring.

Histoire

Frères des Écoles Chrétiennes, Histoire du Canada.

Mathématiques

1926-27

Trigonométrie: Playne and Fawdry.

PREMIÈRE ANNÉE EN 1925-26

Tous les sujets sont fixes; il n'y a pas de sujets facultatifs.

Français

Préceptes Littéraires. Verest, Manuel de Littérature. Premier terme—Notions de psychologie littéraire, pages 19-53; Critique littéraire, pages 228-303; Les genres littéraires, pages 303-340. Second terme—Notions d'Esthétique et la Poésie, pages 340-440; genres intermédiaires, pages 497-514.

Histoire de la Littérature et Auteurs français. Premier terme—J. Calvet, Histoire illustrée de la Littérature française, pages 1-192; Procès, Morceaux choisis; Molière, Les Femmes savantes. Second terme—J. Calvet, Histoire illustrée de la Littérature française, pages 192-375.

Auteurs. Procès, Morceaux choisis, Extraits des principaux écrivains du XVIIe, XVIIIe et XIXe siècle; Corneille, Polyeucte; Racine, Athalie.

Latin

Grammaire et Thèmes latins. Revue générale de la grammaire et de la prosodie latine. Ragon, Exercices latins sur la syntaxe, Versions latines.

Auteurs. Premier terme—Cicéron, Pro Ligario; Virgile, Enéide, chant IIe. Second terme—Virgile, Enéide, Chant IIe, seconde moitié; Cicéron, Pro Archia; Horace, Odes choisies.

Grec

Grammaire et Thèmes grecs. Revue de la morphologie et de la syntaxe. Ragon, Thèmes grecs, Versions grecques.

Auteurs. Premier terme—Démosthène, 1ère Olynthienne; Homère, Iliade, Chant I, 1ère partie. Second terme—Homère, Iliade, Chant I, 2e partie; Platon, Apologie pour Socrate: Extraits.

Anglais

1925-26 et tous les deux ans ensuite

Grammaire. Dulac et Bonnet, Grammaire anglaise—Etude des particules, prépositions, conjonctions, interjections. Premier terme—p. 285-356. Second terme—p. 356 à la fin.

Auteurs. Premier terme—Macaulay, Warren Hastings. Second terme—Newman, Saul, Early Days of David, The Tartar and the Turk, The Turk and the Saracen, The Past and the Present of the Ottoman.

Mathématiques

1925-26 et tous les deux ans ensuite

Wilson and Warren, College Algebra; Crawley and Evans, Analytical Geometry, (jusque à la page 106).

Histoire

Uny, Histoire contemporaine.

LATIN PHILOSOPHY COURSE

(For English-speaking Students)

All the subjects are required.

FIRST AND SECOND YEARS

For the year 1926-27 and every alternate year.

English

Composition and Rhetoric. Composition—the writing of at least four original compositions during each term with an aggregate of at least 2,000 words for each term. Coppens, Introduction to English Rhetoric—Literary aesthetics, theory of the beautiful, taste, imagination, theory of literature, poetics, nature and kinds of poetry, lyric and epic poetry, fiction, realism and romanticism in fiction, development of the English novel. First term—pages 1-150. Second term—pages 151-314. Text: Macaulay, Essay on Lord Clive.

English Literature. Texts: History of English Literature by W. J. Long (Ginn & Co.); English Poetry, its Principles and Progress, edited by Gayley and Young (Macmillan).

(1) First Term: (a) History—Chapters VII-IX. (b) English Poetry—Cavalier Lyrists to Burns (inclusive). (c) Prose—Bunyan's Pilgrim's Progress, Part I; Addison and Steele's The De Coverley Papers (King's Treasuries, Dent); Defoe's Robinson Crusoe (Everyman's Library).

(2) Second Term: (a) History—Chapters X-XI. (b) English Poetry—Wordsworth's Tintern Abbey, My Heart Leaps Up, The Solitary Reaper, I Wandered Lonely as a Cloud, The Reverie of Poor Susan, Sonnets; Coleridge's Ancient Mariner, Kubla Khan; Southey's The Battle of Blenheim; Lamb's The Old Familiar Faces; Hunt's Abou Ben Adhem; Byron's The Prisoner of Chillon, Stanzas from Childe Harold's Pilgrimage, Know Ye the Land, She Walks in Beauty; Shelley's To a Skylark, The Cloud, To Night, Ozymandias; Keats's Ode to a Nightingale, Ode on a Grecian Urn, La Belle Dame Sans Merci, On First Looking into Chapman's Homer; Tennyson's Oenone, The Lady of Shalott, Ulysses, Break, Break, Break, Flower in the Crannied Wall, Crossing the Bar; Browning's Incident of the French Camp, The Patriot, Home Thoughts from Abroad, Home Thoughts from the Sea, My Last Duchess, Andrea del Sarto, Prospice, Epilogue to Asolando; Arnold's The Forsaken Merman, To Marguerite, Rugby Chapel, Dover Beach, Requiescat. (c) Prose—Lamb's Essays of Elia (King's Treasuries, Dent); Ruskin's Sesame and Lillies (King's Treasuries, Dent). Two hours a week.

Composition and Sight Translation. Prose Composition, first term. Bradley-Arnold Latin Composition, exercises 1-12, omitting 4; second term, Exercises 14-24, omitting 19. Sight translation based on the authors read.

Authors. First term—Cicero, Pro Ligario; Virgil, Aeneid II (first part). Second term—Virgil, Aeneid II (second part); Cicero, Pro Marcello; Horace, Odes (selected).

Greek

Composition and Sight Translation. Pitman's Greek Prose Composition. First term—Exercises 13-29. Second term—Exercises 30-44. Sight translation based on the authors read.

Authors. First term—Demosthenes, first Olynthiac; Homer, Iliad I (first part). Second term—Homer, Iliad I (second part); Plato, Apology for Socrates, Extracts.

French

Grammar, Composition and Sight Translation. First term—Fraser and Squair, High School French Grammar (to page 277); Composition; Sight Translation. Second term—Fraser and Squair, High School French Grammar (page 278 to end); Lazare, Elementary French Composition; Sight Translation; Dictation.

Authors. First term—Bazin, Contes Choisis. Second term—Molière, L'Avare.

Mathematics

Trigonometry. Playne and Fawdry.

History

Francis S. Betten, S.J. Modern World, Vol. I.

For the year 1925-26 and every alternate year.

English

Composition and Rhetoric. Composition—the writing of at least two original compositions during each term with an aggregate of at least 1,500 words for each term. Coppens, Introduction to English Rhetoric, Part II, Art of Oratorical Composition—Oratory, nature and types of oratory, division of the oration, style in public speaking, methods of oratorical composition, principles of argumentation. First term—pages 1-140; second term—pages 141-307. Text: Newman, Second Spring.

English Literature. (1) First Term: (a) Poetry—Keats's *The Eve of St. Agnes*; Lowell's *The Vision of Sir Launfal*; Tennyson's *Lancelot and Elaine*, *The Passing of Arthur*; Selections from Rossetti, Swinburne, Bridges, Stevenson, Watson, Kipling, Yeats, De la Mare, Masfield, Noyes, John McCrae. Text: *English Poetry*, its Principles and Progress, edited by Gayley and Young (Macmillan). (b) Prose—Scott's *Quentin Durward* (Everyman's Library); Hardy's *Far from the Madding Crowd* (Cornell Series).

(2) Second Term: (a) Chaucer's Prologue to the *Canterbury Tales*. Text: *English Poetry*, edited by Gayley and Young (Macmillan). (b) Bacon's *Essays* (Francis Bacon, Selections, edited by Matheson, pages 41-106, Oxford). (c) Shakespeare's *The Merchant of Venice*, *Coriolanus* (Tudor Shakespeare, Macmillan). Two hours a week.

Note—These Courses include a knowledge of the Life and times of the authors read from Long and other sources, and an ability to render Chaucer into modern English prose.

Latin

Composition and Sight Translation. Bradley-Arnold Latin Prose Composition. First term—Exercises 41-55, omitting 43, 44, 47, 48 and 51. Second term—A continuation of this Course. Exercises 56-65, omitting 62.

Authors and Sight Translation. First term—Cicero, *Pro Murena* (1st part); Horace, *Epistles*. Second term—Cicero, *Pro Murena* (2nd part); Horace, *Satires*. Sight translation based on the authors read.

Greek

Composition. Pitman's Continuous Proses.

Authors and Sight Translation. First term—Demosthenes, *Philippic I*; Euripides, *Hecuba* (1st part). Second term—Demosthenes, *Philippic II*; Euripides, *Hecuba* (2nd part). Sight translation based on the prose author read.

French

Grammar and Composition. Text: Fraser and Squair, *French Grammar and Reader*. First term—Page 220-262. Exercises. Second term—Pages 262 to the end. Exercises. One hour a week.

Authors. First term—Selections from Bossuet. Second term—Racine's *Athalie*.

Mathematics

College Algebra: Wilson and Warren.

Analytical Geometry. The analytical geometry of the straight line, circle, parabola, ellipse and hyperbola. Crawley and Evans' *Analytical Geometry* to page 106.

History

Francis S. Betten, S.J., *Modern World*, Vol. II.

CURRICULA IN PHARMACY

DIPLOMA IN PHARMACY

The University of Manitoba entered into an arrangement with the Pharmaceutical Association of Manitoba in 1914 whereby the work of instruction in Pharmacy of students desiring to qualify as licensed Pharmaceutical Chemists in Manitoba (formerly carried on by the Association in its own college, known as the Manitoba College of Pharmacy) was undertaken by the University. The Association continues to prescribe the preliminary educational qualifications, the conditions of apprenticeship and practical training, admission fees, etc., and issues the license, the University being responsible only for the work of instruction and examination. Similarly, the Association determines the value of all professional certificates or other like credentials from other associations or institutions, and reports to the University the credit to be given in the course for the Diploma in Pharmacy. An applicant for registration as a Certified Apprentice shall produce evidence that he has passed the Matriculation Examination for Arts or Science of the University of Manitoba or an examination reasonably equivalent thereto, and such standing shall be clear of all conditions. Intending students must have the period of apprenticeship certified on special forms obtainable on request from the Registrar of the Pharmaceutical Association, and these certificates are to be returned to the Registrar of the Pharmaceutical Association not later than August 15th of the year in which the student intends to enter the University Course in Pharmacy. A certificate from the Registrar of the Pharmaceutical Association to the effect that the Association's requirements with respect to preliminary education, apprenticeship, etc., have been met must be presented to the Registrar of the University at the time of registration or in advance.

The course covers two academic years, as follows:

Course Nos.	Page	SUBJECT	Fall Term		Spring Term	
			Lecture Hours per week	Lab. Hours per week	Lecture Hours per week	Lab. Hours per week
3, 4; 21, 22;						
25, 26	38	Chemistry.....	3	6	3	6
1, 2; 7, 8	89	Pharmacy.....	3	3	3	3
13, 14, 15, 16	89	Materia Medica.....	2	2	1	2
25, 26	89	Prescriptions.....	2		2	--
9	52	Mineralogy.....			2	
5, 7	73	Zoology.....	2	2		
1, 2; 3, 4	35	Botany.....	2	2	2	2

Second Year

7, 8; 27, 28	38	Chemistry.....	2	6	2	6
3, 4; 9, 10	89	Pharmacy.....	2	6	2	6
1, 2; 3, 4	66	Physics.....	3	2	3	2
17, 18, 19, 20	89	Materia Medica.....	2	2	2	2

The following excerpts from the "Manitoba Pharmaceutical Act" touching the matters of preliminary educational qualification, conditions of apprenticeship, etc., are appended:

THE PHARMACEUTICAL ACT

(4 Geo. V., Cap. 78, 1914)

* * * * *

15. Before any candidate shall be entitled to be registered as a certified apprentice he shall:

- (a) produce to the council satisfactory evidence of a good moral character;
- (b) pass such examination or examinations as the council shall have prescribed or shall prescribe, or produce to the council satisfactory evidence of requisite knowledge.

16. Before any candidate shall be entitled to be registered as a certified clerk he shall:

(a) produce to the council satisfactory evidence that he has actually served as a certified apprentice for at least two years to a licensed pharmaceutical chemist who has during such period been engaged in actual practice as a compounder of physicians' prescriptions;

(b) pass such examination (to be called the "minor examination") as the council shall have prescribed or shall prescribe, or produce to the council other satisfactory evidence of requisite knowledge and experience.

(2) No person shall be competent to be registered as a certified clerk unless he shall have attained the age of at least eighteen years.

17. Before any candidate shall be entitled to be registered as a licentiate pharmaceutical chemist he shall:

(a) produce to the council satisfactory evidence that he has served at least two years as a certified clerk or at least four years as a certified apprentice to a licensed pharmaceutical chemist who has been during such periods respectively in actual practice as a compounder of physicians' prescriptions, and has attended such course of instruction as the council shall prescribe; time spent in attendance on a regular course of lectures and instruction in any college or school of pharmacy recognized and approved by the council shall be considered part of such periods of service respectively;

(b) produce to the council satisfactory evidence that he has passed the minor examination;

(c) pass such examination (to be called the "major examination") as the council shall have prescribed, or shall prescribe, or produce to the council other satisfactory evidence of requisite knowledge and experience.

(2) No person shall be registered as a pharmaceutical chemist who has not attained the age of twenty-one years.

19. The council may in its discretion accept the diploma or other authenticated certificate of examination of any other competent examining board out of the Province of Manitoba, or of the University of Manitoba, as sufficient evidence of qualification of any applicants to be registered under this Act as certified apprentice, certified clerk or pharmaceutical chemist respectively.

DEGREE IN PHARMACY

BACHELOR OF SCIENCE (IN PHARMACY)

The University of Manitoba confers the degree of Bachelor of Science in Pharmacy. The following are the requisites for proceeding in course to this degree.

Matriculation

The requirements for Matriculation are the same as for Matriculation for Arts or Science.

First Year

Course Nos.	Page	SUBJECT	Fall Term		Spring Term	
			Lecture Hours per week	Lab. Hours per week	Lecture Hours per week	Lab. Hours per week
1, 2; 3, 4	44	English.....	4	---	4	---
1, 2; 3, 4	59	Mathematics.....	6	---	6	---
1, 2; 3, 4	66	Physics.....	3	2	3	2
3, 4; 21, 22;	38	Chemistry.....	3	6	3	6
25, 26	52	Mineralogy.....	---	---	2	---
9		One of—				
1, 2; 3, 4	49	French.....	3	---	3	---
1, 2 or						
3, 4; 5, 6	54	German.....	3	---	3	---

Second Year*

7, 8; 27, 28	38	Chemistry.....	3	6	3	6
1, 2; 3, 4	73	Zoology.....	2	2	2	2
1, 2; 3, 4	35	Botany.....	2	2	2	2
1, 2; 7, 8	89	Pharmacy.....	3	3	3	3
13, 14, 15, 16	89	Materia Medica.....	2	2	2	2
25, 26	89	Prescriptions.....	2	---	2	---

Third Year*

11, 12; 33, 34;						
37, 38	37	Chemistry.....	2	9	2	9
9, 10;						
11, 12; 14	35	Botany.....	3	5	4	5
3, 4; 9, 10	89	Pharmacy.....	2	6	2	6
17, 18, 19, 20	89	Materia Medica.....	2	2	2	2

Fourth Year

5, 6; 11, 12	89	Pharmacy.....	2	9	2	9
21, 22; 23, 24	89	Materia Medica.....	2	6	2	6
13, 14; 39, 40	38	Chemistry.....	2	6	2	6

*The same periods of apprenticeship, certified to by the Registrar of the Manitoba Pharmaceutical Association, are required for admission to the Second and Third Years of this course as are required for admission to the First and Second Years respectively of the Diploma Course. This requirement is imposed in conformity with the Pharmaceutical Association Act. (See page 87).

COURSES IN PHARMACY IN DETAIL

DEPARTMENT OF PHARMACY

Henry E. Bletcher, B.Sc., F.C.I.C. *Professor*

Dougald McDougall, B.Sc., A.C.I.C. *Assistant*

1, 2. Pharmacy I. First Term: An exposition of the principles on which pharmaceutical operations are based; the utilization of these processes for specific ends; the arithmetical calculations required in operative pharmacy; the historical development of pharmacy. Second Term: An extended consideration of the galenical preparations of the British Pharmacopoeia; the comparison of other important national pharmacopoeias with the British Pharmacopoeia. Three hours a week.

3, 4. Pharmacy II. The application of Chemistry to the preparation of medicines both inorganic and organic with especial reference to the British Pharmacopoeia; methods of manufacture; characters of pure products; possible impurities; tests. Study of unofficial chemicals of interest. Two hours a week.

5, 6. Pharmacy III. The preparation, characters, and uses of important medicinal substances especially certain alkaloids, glucosides, synthetics and biologics. Special topics relating to pharmaceutical research will be assigned for investigation and report. Two hours a week, with assigned reading and reports.

7, 8. Practical Pharmacy I. This course includes practice in the physical operations used in pharmacy such as determination of weight, volume, temperature, specific gravity, melting point, boiling point, etc.; the study of simple heat phenomena; simple heat processes; filtration; evaporation, crystallization, etc.; distillation; dispensing of classes of preparation commonly prescribed by physicians; dispensing of difficult prescriptions; care of apparatus; methods of work. Three hours a week.

9, 10. Practical Pharmacy II. The preparation and purification of typical inorganic and organic chemical substances used as medicines; the manufacture of galenical preparations; the assay of selected preparations; the study of the more important groups of substances of biochemical origin.

11, 12. Practical Pharmacy III. The identification of medicinal chemicals, detection of impurities, special methods for the determination of poisonous impurities. Determination of the identification values of fixed and volatile oils. A careful study of extraction and purification methods suitable for alkaloids, glucosides, and resins. The separation and identification of alkaloids in mixtures. Preparation of certain synthetics. Nine hours a week.

13, 14. Materia Medica I. The detailed study of organic drugs, particularly those of the British Pharmacopoeia; the principal facts relating to their sources, preparation, identification, purity, characteristics, constituents and toxicology. Two hours a week.

15, 16. **Materia Medica II.** A practical course to accompany course I; a considerable number of plant drugs will be carefully studied by means of specimens selected to show the characteristics by which the drug is identified. Two hours a week.

17, 18. **Materia Medica III.** The study of the chemical nature of important classes of plant constituents including among others the organic acids, fixed oils, volatile oils, alkaloids, glucosides, tannins, carbohydrates; products of destructive distillation; fermentation products; the recognition of the natural orders of most importance as sources of drugs; the main physiological processes of the animal body and the pharmacology of the more important drugs. Biologics. Two hours a week. Selected reading. Reports.

19, 20. **Materia Medica IV.** The histological structure of medicinal plants; the study by means of the microscope of selected powdered drugs and the detection of impurities in them. Two hours a week.

21, 22. **Materia Medica V.** Phytochemistry, with special attention to the medicinal substances contained in plants. Two hours a week. Assigned reading. Reports.

23, 24. **Materia Medica VI.** A laboratory course to accompany course V. Six hours a week.

25, 26. **Prescriptions.** This course includes the study of the Latin of pharmacy, posology, prescription arithmetic, methods of compounding prescriptions, recognition and treatment of incompatibilities, the Pharmaceutical Act and other legislation affecting the practice of pharmacy, and all other topics of the Diploma course in Pharmacy not specifically classified elsewhere. Two hours a week.

GENERAL REGULATIONS

REGISTRATION

Students desiring to register in the Faculty of Arts and Science or in an affiliated Arts College for class attendance during the session 1925-1926 are required to make application for permission to do so, using a blank form procurable at the Registrar's office. This form properly filled out should be returned to the Registrar in the case of students attending during 1924-1925 not later than May 1st, and in all other cases not later than August 22nd.

The 1925-1926 session begins on Thursday, September 17th, and lectures in Arts, Science and Pharmacy begin on Monday, September 21st.

Students who present themselves for registration at the Registrar's Office of the University later than 1 o'clock p.m. on Saturday, September 19th, will be required to pay the sum of \$2.00 in addition to their tuition fee, or, in case all their classes are taken in an affiliated college will be subjected to a fine of \$2.00.

No registration will be accepted after Thursday, October 1st, unless the Board of Studies on investigation finds that a special concession is warranted.

The dates for the registration of extra-mural students are the same as those for students in attendance, and the same regulations apply, except that extra-mural students are not required to register in person, but may do so by mail.

Special students may be registered whose applications have been approved by the Dean of the Faculty concerned and the Board of Studies Committee on Students' Courses.

EXAMINATIONS

General Regulations

1. The regular examinations for undergraduates in Arts, Science, and Pharmacy are given in part in December and in part in April of each academic year. For definite information as to the work upon which each of these sets of examinations is based, the student is referred to the curricula as set forth elsewhere in this Calendar.

2. Examinations in Arts and Science may be held at such outside centres in Manitoba, Saskatchewan, Alberta and British Columbia, as the Board of Studies may from time to time approve, it being understood that this does not apply to practical or oral examinations, where such are required.

Matriculation Examinations

1. The Examinations for Matriculation into all Faculties are held twice in each year, in the months of June and September.

2. The examinations in June are conducted by the Department of Education for Manitoba for the University, concurrently with its own examinations for Teachers' Certificates, and insofar as the requirements for the two courses correspond, the two groups of candidates write upon the same papers. The University determines its requirements for entrance

and its standards of examination, the joint examiners are appointed by mutual agreement, and the Matriculation examination results are submitted to the Board of Studies, which determines whether each candidate passes or fails and, in case he passes, determines his grading.

These examinations are held in Winnipeg and at a large number of outside points in the province.

In addition, the June Matriculation Examinations are held by the University on request at such points outside of Manitoba as may from time to time be approved by the Board of Studies.

3. The September Matriculation Examination is held at the University in Winnipeg only.

CREDIT FOR TERM WORK

1. At the close of each term the instructors in Arts and Science in the University and the affiliated colleges may make a report on the work of each student for the term just closing in the form of an award of marks, to be based upon the results of recitations, reports, essays, papers or interim examinations, or a combination of any number or of all of these tests, as indicating the character of the work throughout the term. The maximum credit allowed for term work in such a report shall be 20 per cent. of the total marks allowed for the subject or portion of the subject in question.

2. On the acceptance of the report of the instructor, the marks given for term work are added to the marks obtained at the written examination in the subject (for which the minimum shall be 80 per cent. of the total marks allowed for the subject or portion of the subject in question), and this total shall determine the standing of the student.

3. In case the instructor submits no report, or his report is not accepted by the Board of Studies for any reason, the standing of the student is determined entirely by the final written examination, which will be valued on the basis of the total marks allowed for the subject or portion of the subject in question.

4. In any case, the award of scholarships and medals in Arts and Science is made entirely on the results of the final written and practical examinations.

5. The marks for term work will be reported to the student by the Registrar when the marks given for his written examination are announced, but not before.

FAILURES AND SUPPLEMENTALS

1. For information regarding Matriculation failures and supplementals, see Matriculation Calendar. Every applicant presenting himself for admission with a condition from Matriculation will be subject to such limitation of his first session's course in the Junior Division as may be ordered by the Committee on Students' Courses. The rule regarding prerequisites may also debar him from taking a Junior Division course in any subject before the Matriculation course in that subject or in any other judged to be prerequisite, has been completed.

2. When the work in a subject is divided into parts such as the theoretical part and the laboratory part in a science subject or the grammar and prose part and the authors part in a language subject, final credit

towards standing for a degree will not be given for any such part or parts of a subject until all have been completed and passed to the satisfaction of the examiners. Provisional credit will not, in the meantime, count towards determining eligibility to proceed with further work.

3. If a student fails to pass in any subject or part of a subject but secures 35 per cent. or over he will have the privilege of repeating the examination in that subject or part of a subject in which he has failed without attendance but if he obtains less than 35 per cent. he must repeat the class work of that subject or part of a subject in attendance either during a regular session or at a Summer School or under approved tuition, before he is accorded another examination.

4. A regular student who obtains less than 8 units of credit at the examinations of any session including the succeeding Summer School will not be permitted to continue his studies at the University nor be registered for University examinations during the next academic session.

5. A student in Arts and Science who has not, prior to the opening of the session, completed 36 units of credit, shall be regarded as belonging to the Junior Division. A student in Arts and Science who has, prior to the opening of the session, completed at least 36 units of credit, shall be regarded as belonging to the Senior Division. Such a student, who has already completed 40 units of credit in the Junior Division, may elect to proceed in either the Senior Pass Division or the Senior Honors Division.

6. A student may not enter the Senior Honors Division unless he has completed 40 units of work in the Junior Division. He may not continue in the Senior Honors Division longer than one annual session unless he has at the close of that session—

- (1) Obtained 16 units of credit in the Division.
- (2) Attained a grade of at least 67 per cent. on each of two subjects (representing 8 units of credit) which subjects he proposes to elect in connection with his further work in that Division.

A student may transfer from the Senior Pass Division to the Senior Honors Division at the close of one annual session in that Division provided he has—

- (1) Completed 40 units of work in the Junior Division.
- (2) Completed 16 units of work in the Senior Division.
- (3) Attained a grade of at least 67 per cent. on each of two subjects of the Senior Division (representing 8 units of credit) which subject he will be permitted to elect in connection with further work in the Senior Honors Division.

7. Students are permitted to group themselves into classes or years within the Divisions for purposes of social life, athletics, etc.

8. The pass mark in all undergraduate subjects in Arts and Science is 50 per cent., both for extra-mural and intra-mural students.

9. (a) The pass mark in all professional subjects in Pharmacy is 60 per cent.; in the remaining subjects of the course 50 per cent.

(b) A student of the First Year of the Diploma Course in Pharmacy, who, at the close of the April examination, has not more than three conditions against him, is granted standing for the year with supplementals, provided his aggregate is at least 60 per cent. of the total maximum marks assigned to all the subjects of his course.

(c) No student will be allowed to register for the Second Year of the Diploma Course who has more than one condition of the First Year registered against him.

(d) A student of the second year of the Diploma Course, who, at the close of the April examination, has not more than two conditions against him, is granted standing for the year with supplementals, provided his aggregate is at least 60 per cent. of the total maximum marks assigned to the course.

(e) A student who fails to obtain 60 per cent. of the total maximum marks at any examination, or who having obtained 60 per cent. of the maximum has more than three conditions of the First Year or two conditions of the Second Year against him, loses his standing and must write on all the subjects of the examination again.

(f) A student who has failed at any examination may be required, at the discretion of the Dean of the Faculty and the instructors in the subject, to repeat his attendance before again writing on an examination.

(g) The University reserves the right to terminate the connection of any student with the course in Pharmacy at any time for what it deems either mental, moral, or physical unfitness for professional work.

10. The April Supplemental Examinations begin on the third Monday of the month and the September Supplemental Examinations begin on the first Tuesday of the month, and run concurrently with the September Matriculation Examinations. For them, as for all other supplemental and special examinations, application should be made at least thirty days in advance and on blank forms intended for the purpose, to be obtained from the Registrar.

11. The scale of fees for supplemental examinations is as follows:

Junior Division in Arts and Science and First Year in Pharmacy—\$3.00 for the first hour-and-a-half unit and 50 cents for each additional hour-and-a-half unit, whether of half or full papers, up to a maximum of \$8.00.

Senior Division in Arts and Science and Second Year in Pharmacy—\$3.00 for the first hour-and-a-half paper and \$6.00 for the first three-hour paper with 50 cents for each additional half paper and \$1.00 for each additional full paper until a maximum of \$8.00 is reached.

12. In all cases, students who are required to repeat a course of instruction or take a supplemental examination and who fail to present themselves for the same and pass at the Summer School or the September examination following the regular examination at which the original failure was made, must, when they present themselves for examination at a later date, accommodate themselves to any changes in the curriculum that may have been made in the meantime.

13. A condition in any subject in which the supplemental examination privilege has been earned may also be removed by writing upon the paper provided in the subject in question at any regular examination where such paper is examined. In such a case the supplemental examination fee is required from the candidate whether or not he has paid at the same time the regular examination fee. He should also make application therefor on a special form provided for such cases by the Registrar.

14. September Supplemental Examinations are held at the University, and also at such outside centres in Manitoba, Saskatchewan, Alberta and British Columbia as the Board of Studies may from time to time approve.

15. Candidates for any supplemental or special examination should at least thirty days before the date of the examination, make suitable application to the Registrar, from whom blank forms of application may be obtained. The required fee must accompany the application. The fee for a regular examination is payable (along with the tuition fee, if such is required) at the time of registration for class work.

EXTRA-MURAL STUDENTS IN ARTS

Extra-mural students in Arts, resident in the Province of Manitoba and possessing the requisite previous academic standing, will be accepted, subject to the following conditions:

1. No subject may be elected that involves oral or laboratory work.
2. Extra-mural students must register within the same time-limits as are prescribed for students in attendance and must conform to the same regulations and standards as are in force for intra-mural students, save that term marks will not be exacted, except in the case of term essays in English.
3. Extra-mural students must present themselves for examination at the time appointed for intra-mural students and either at Winnipeg or at one of the outside centres specially authorized by the Board of Studies for the purpose.
4. No student will be allowed to complete in full the requirements for the Bachelor of Arts degree extra-murally but a minimum of one year's attendance at this or another approved University will be exacted before the degree is conferred.
5. Every extra-mural candidate at any examination may be required to forward to the Registrar a certificate from some trustworthy person that he is of good moral character.

N.B.—A student who has obtained at least a year's credit as an extra-mural student while resident in the Province of Manitoba or who has attended for at least a year as an intra-mural student at the University of Manitoba or an affiliated college, may, if, on removal from the province, he desires to continue his course extra-murally, have the privilege extended to him of so doing, provided that all the other requirements set forth above are complied with and that he has a minimum of one year's attendance at an approved University to his credit, before the degree of Bachelor of Arts is conferred.

It is understood that the additional limitations imposed over and above those in effect in 1921-1922 and previously, by the above regulations do not apply in the cases of any extra-mural students who were registered for that session or earlier.

APPEALS

1. Any candidate is at liberty to enter an appeal, within three weeks after the publication of the examination results in the public press, against the standing assigned him by the examiners and to request a revision of the marking of one or more of his papers.

2. The fee for such revision is \$2.00 for each paper. This fee is payable at the time the appeal is made, and in case the revision takes place, is not returnable, whether the original marking is sustained or not. When the revision is not granted the fee is returnable.

3. There is no special form of application for such revision.

EQUIVALENT EXAMINATIONS

1. Provincial Department of Education examinations are accepted *pro tanto* by the University, insofar as the subjects and standing are, to the satisfaction of the Board of Studies, the same as, or equivalent to, those required by the University—but candidates offering certificates of having passed such examinations are required to pass in such subject or subjects not covered by their certificates, as may, in the opinion of the Board, be necessary for the completion of the examination, for partial standing towards which such certificates are presented.

2. (a) The following are accepted *pro tanto* for subjects of Part I of Arts or Science Matriculation, or Part I of Junior Matriculation for Medicine or Engineering:

- (1) Grade X Teachers' Examination Certificate, Manitoba.
- (2) Third Class Diploma, Saskatchewan, Alberta or British Columbia.
- (3) Entrance to Model Schools Certificate, Ontario.

(b) The following are accepted *pro tanto* for subjects of Parts I and II of Arts or Science Matriculation or full Junior Matriculation for Medicine or Engineering:

- (1) Grade XI Teachers' Examination Certificate, Manitoba.
- (2) Second Class Diploma, Saskatchewan, Alberta or British Columbia.
- (3) Entrance to Normal Schools Certificate, Ontario.

(c) The following are accepted *pro tanto* for subjects of the Junior Division in Arts and Science:

- (1) Grade XII Teachers' Examination Certificate, Manitoba.
- (2) First Class Diploma, Saskatchewan, Alberta or British Columbia.
- (3) Entrance to Faculties of Education Certificate, Ontario.

3. Provincial or Departmental Certificates for any other provinces of the Dominion are granted such *pro tanto* standing as the Board of Studies may from time to time recommend.

4. Candidates presenting *pro tanto* certificates must attempt to pass at one time in all the subjects necessary to the completion of the entire examination.

5. Holders of certificates of educational value, other than those above mentioned, receive such recognition as the Board of Studies may from time to time recommend.

Admission *Ad Eundem Statum* and *Ad Eundem Gradum*

Members of any other University in His Majesty's Dominions, or of any other University accredited by the University of Manitoba, who may apply for admission to this University, are not required to take the Entrance Examination of the Faculty to which they belong, but may be admitted *ad eundem statum* or *ad eundem gradum*, on presentation of their credentials and payment of the required fee.

ATTENDANCE ON LECTURES AND PRACTICAL WORK

All students, except those who have been duly registered as taking their work extra-murally, are expected to be regular in their attendance at lectures.

When the number of absences recorded against a student under the Faculty of Arts and Science in any course exceeds ten per cent. of the number of lectures given for the term in that course, the instructor shall report the case to the Dean, who shall lay it before the Committee on Attendance and Progress of Students. When a student's attendance continues unsatisfactory, the Committee with the concurrence of the instructor and of the Discipline Committee of the General Faculty Council has power to exclude such student from classes or examinations, or both. The number of absences is reckoned from the opening date of the term and not merely from the date of registration of the student. When, after repeated warnings a student is found to be persistently negligent with respect to his work or fails for any other reason to make satisfactory progress, the instructor shall report his case to the Dean, who shall lay it before the Committee on Attendance and Progress of Students. When the student's work still continues unsatisfactory, the Committee, with the concurrence of the instructor and the Discipline Committee of the General Faculty Council, has power to exclude such student from classes or examinations or both.*

All students in Arts registered in an affiliated College will be expected to comply with the regulations as to attendance and work made by their College and a statement from the Faculty of an affiliated college in which any such student is registered to the effect that his attendance or work has been unsatisfactory, will be sufficient to debar him from examination.

No student is allowed to present himself for examination in any laboratory or drafting-room subject, unless he has satisfactorily carried out and recorded the minimum of practical work in each such subject decided upon by his Faculty; the scheme of practical work to be announced at the beginning of each session. This regulation applies to all classes of students, whether of Arts, Science, Engineering, Medicine or Pharmacy, doing practical work under the direction of the University Faculties.

ISBISTER SCHOLARSHIPS

Junior Division in Arts and Science

1. There are offered ten scholarships of \$75.00 each to the students ranking highest on the aggregate of an approved course of the value of twenty units selected in accordance with the regulations governing the work for the degrees of B.A. and B.Sc. and at least twelve units of which is for work normally taken by a student in the first year in the Division.

2. There are offered ten scholarships of \$75.00 each to the students ranking highest on the aggregate of an approved course of the value of twenty units, selected in accordance with the regulations governing the work for the degrees of B.A. and B.Sc. and at least twelve units of which is for work normally taken by a student in the Second Year in the Division.

*A student who is debarred from University examinations in any subject or subjects at the end of a term or session because of insufficient attendance or unsatisfactory work, is not allowed to take examination in the subject or subjects subsequently until he has fulfilled the ordinary attendance regulations with respect to such subject or subjects, as applied to new students during a succeeding term or session and has done satisfactory work therein.

The student must have clear Matriculation standing and must have taken the work within the regular session for which the scholarship is awarded. Work done in a previous session or at a Summer School may not be offered in competition for a scholarship. A minimum of 75 per cent on the aggregate of the twenty-unit course will be required.

Senior Division in Arts and Science

1. There are offered ten scholarships of \$100.00 each to the students ranking highest on the aggregate of an approved course of the value of sixteen units, covering four subjects, selected in accordance with the regulations governing the work for the degrees of B.A. and B.Sc. and at least twelve units of which is for work normally taken by a student in the first year in the Senior Division. The competition is open to students both of the Senior Pass and the Senior Honors Division. A minimum of 75 per cent. on the aggregate of the sixteen-unit course will be required.

2. There are offered ten scholarships of \$100.00 each, one in each of the subjects, Economics IV H, English IV H, French IV H, German IV H, Greek IV H, Hebrew IV H, History IV H, Latin IV H, Mathematics IV H, Philosophy IV H, normally taken in the second year of a student's work in the Senior Honors Division in Arts and two scholarships of \$100.00 each for general competition among the students taking Biochemistry IV, Botany IV H, Chemistry IV H, Geology IV H, Physics IV H, Physiology IV and Zoology IV H, subjects normally taken in the second year of a student's work in the Senior Honors Division in Science. A minimum of 75 per cent. will be required not only in the subject in which the scholarship is awarded but also in the other subject carried concurrently by the student.

Latin Philosophy

1. There are offered two scholarships of \$50.00 each in the First Year in the Latin Philosophy Course, one for competition among English-speaking students and one for competition among French-speaking students.

2. There are offered two scholarships of \$50.00 each in the Second Year in the Latin Philosophy Course, one for competition among English-speaking students, and one for competition among French speaking students.

3. A scholarship of \$100.00 is offered for competition in the Latin Philosophy Course of the Third Year in Arts.

A minimum of 75 per cent. on the aggregate of the examinations of the course on which the scholarship is awarded will be required.

Pharmacy

There is offered a scholarship of \$75.00 in the First Year of the course in Pharmacy. A minimum of 75 per cent. on the aggregate of the examinations of the course on which the scholarship is awarded will be required.

GENERAL CONDITIONS OF ELIGIBILITY TO RECEIVE ISBISTER SCHOLARSHIPS

1. A student is not qualified to receive a scholarship unless:

(a) He has been ranked above all competitors on the aggregate of the marks in the subject or subjects for which the scholarship is given, or, in cases where more than one scholarship is offered, is one of a group that has been so ranked, or has become eligible through reversion. In all cases

where general proficiency scholarships are awarded, not upon a fixed course but upon a course involving elective subjects, the practice has been adopted of raising the highest candidate in each subject to 100 per cent. and the others likely to be in competition in proportion and of comparing the competitors upon the basis of these raised percentages.

(b) And has removed at the same examination, or prior to it, any condition from a previous year or grade that may have been registered against him.

2. No student may hold more than one scholarship. If a student succeeds in otherwise qualifying for more than one scholarship in any year, he will be allowed to receive but one, and his name will be entered upon the list as having qualified for the other, though not entitled to any of the funds; and such other scholarship will be granted to the one ranking next to him, provided he is otherwise eligible.

CONDITIONS GOVERNING THE PAYMENT OF ISBISTER SCHOLARSHIPS

The general conditions governing the payment of these scholarships are determined by the terms of the will under which the trust was established, from which the following is an excerpt:

"I desire it to be understood that I establish this trust for the benefit and improvement of education in the Province of Manitoba, and it is my wish that it shall take the form of a general scholarship or prize fund for the encouragement of meritorious students and scholars in the various places of education in the Province for both sexes, from the Common School to the Colleges and Institutions and Private Schools where the highest education is given without any distinction of race, creed, language or nationality. In the Lower Schools this encouragement may take the form of prizes, and in the Higher Schools that of scholarships of sufficient value to maintain or help to maintain the holder at a College or University either in Canada, Great Britain or elsewhere, and I leave the Governing Body of the Manitoba University free to carry out the objects of the trusts now confided to them in the manner which to them may seem best."

The scholarships are paid during the course of the annual session following that at the examinations of which they were won, provided the winners are duly enrolled and regularly in attendance at the University or an affiliated college, upon the full work of the next succeeding year of the degree course they have begun, and payment is made upon the following plan: One moiety on the second Monday in November and one moiety on the second Monday in February, upon receipt by the Bursar of certification as to the award of the scholarship from the Registrar and as to compliance with the above requirements of registration and attendance from the Dean and the President in the case of students registered for instruction in the University, and from the Registrar of the University and the head of the College in question in the case of students registered for instruction in an affiliated college.

If, for any reason, the winner of a scholarship is not in attendance as an intra-mural student during the academic year next following that in which the scholarship is won, the scholarship will automatically be extended for another year.

If, for any reason, the winner of a scholarship is not in attendance during the two academic years next following that in which the scholarship is won, the scholarship will lapse.

The values stated for the scholarships are the maximum values which the scholarships will not exceed. If the funds do not allow of the scholarships being of such maximum value, then they shall be proportionately of such value as the funds will allow.

AIKINS SCHOLARSHIPS IN THE ENGLISH LANGUAGE AND LITERATURE

Sir James Aikins, Lieutenant-Governor of Manitoba, and formerly for many years a member of the Council of the University and its Honorary Bursar, has established a trust for the purpose of providing annually what are to be known as the Aikins Scholarships in the English Language and Literature. They are to be awarded to the students ranking first at the annual examinations in English I, English II and English III respectively, and are to have the same conditions attached as are attached to the Isbister Scholarships with respect to a minimum standing of 75 per cent in the subject, concurrent completion of a full course of study of the year in question and freedom from prior conditions. They will be paid during the next succeeding annual session upon the same plan as that of the Isbister scholarships. The amounts have been fixed for the present at the following:

English I.....	\$ 75.00
English II.....	75.00
English III.....	125.00

KHAKI UNIVERSITY OF CANADA AND YOUNG MEN'S CHRISTIAN ASSOCIATION MEMORIAL BURSARIES

There are offered annually by the University of Manitoba fourteen bursaries known as the Khaki University and Young Men's Christian Association Memorial Bursaries. These scholarships involve a payment to the holder of \$50.00 and remission of tuition fees to the extent of full remission to students in Arts or Science and half remission to students in professional courses. These bursaries are considered as tenable along with other University Scholarships.

The award is made by the University Council on the recommendation of a Committee of Selection to be appointed by it.

In choosing the holders of bursaries consideration is given not only to literary and scholastic attainments, but also to personal character, qualities of leadership and the financial circumstances of the applicants. *Preference will be given to the sons and daughters of soldiers of the Great War and to soldier students who saw service overseas.*

Applications for these bursaries will be received by the Registrar of the University on or after April 1st of each year and up to August 1st and the award will be announced on or immediately after the 1st of September next ensuing. A form of application may be obtained at the Registrar's office.

1851 EXHIBITION SCHOLARSHIPS

By a recent decision of the Royal Commission for the Exhibition of 1851 the University of Manitoba has been included in the list of overseas Universities that are invited to recommend candidates for the Scholarships that are awarded annually by the Commissioners. Every candidate put forward must be a British subject under twenty-six years of age and a *bona fide* student of science of not less than three years'

standing. His qualifications for pursuing independent research must be such as to entitle his candidature to serious consideration. The scholarships are of the value of £250 per annum with certain additional allowances. They are tenable ordinarily for two years, the continuation for a second year depending upon the satisfactory nature of the scholar's first year's work. In cases of exceptional merit, where it appears that the renewal is likely to result in work of scientific importance, renewal for a third year may be accorded. These Scholarships may be held, with the approval of the Commissioners, at any institution in Great Britain or abroad, but a scholar will not be permitted to conduct his investigations in the country in which he has received his scientific education.

Applications from students of the University of Manitoba to have their records considered with a view to their possible nomination to the Commissioners for one of these Scholarships, should be in the hands of the Registrar by March 1st in any year,

THE McMILLAN FELLOWSHIP IN HISTORY AND POLITICAL SCIENCE

A fellowship in History and Political Science of amount \$500.00 will be awarded annually to a graduate of the University of Manitoba who has obtained a creditable standing in History or Political Economy or Political Science, and who will register for graduate work in this field in the University of Manitoba, or in another approved University. The award will be made by a committee consisting of the Chancellor, the President and four members named by the Board of Governors. Application should be made to the Registrar.

The tenure of the fellowship will be conditioned on the approval by the University Council of the University and the course selected by the appointee for graduate study, and upon subsequent satisfactory reports as to his progress. It is expected that the graduate work undertaken under the fellowship shall be directed towards an advanced degree and shall occupy the full time of the student for at least one academic session.

HUDSON'S BAY COMPANY RESEARCH FELLOWSHIP

This Fellowship is offered annually by the Hudson's Bay Company for research in pure or applied science. The following regulations will govern the appointment to this Fellowship:

1. The Fellowship shall be known as the Hudson's Bay Company Research Fellowship, and shall be tenable at the University of Manitoba.

2. An appointment will be made annually, if a suitable candidate is nominated, by the Council of the University of Manitoba, and confirmed by the Governor of the Hudson's Bay Company, for the ten years, 1920-29, inclusive.

3. In the event of no suitable candidate presenting himself, two Fellows may be appointed in the succeeding year.

4. The Fellowship is of the annual value of \$1500.00 and will be paid in four instalments on presentation of satisfactory reports on the work of the Fellow from the Head of the Department in which he is working. At least nine calendar months' work at the University of Manitoba must be completed before the payment of the last instalment.

5. The appointments are open to graduates (excluding *ad eundem* graduates) of any Canadian University.

6. Each Fellowship will be tenable for a period of one year, and will be renewed for a further period only in a very exceptional case.

7. Each Fellowship may be held in any branch of pure or applied science (*i.e.*, the Natural and Physical Sciences, the Medical Sciences, Engineering, and Agriculture).

8. A candidate should adduce special qualifications in the subject in which he desires to carry on research. Published papers or evidence of completed research will be regarded as one evidence of such qualifications.

9. The entire time of the Fellow must be devoted to original research carried out under the general control of the Head of the Department in which he elects to work.

10. All publications of results of research carried out under appointment to one of these fellowships shall bear on the title-page, after the name of the author, the words "Hudson's Bay Company's Research Fellow of the University of Manitoba."

11. The nomination will be made by the Fellowship Committee of the Scientific Club of Winnipeg, in conjunction with the Chancellor and President of the University of Manitoba.

12. The regulations will be circulated to all the Canadian Universities, and other bodies likely to be interested, in January of each year. The applications must be in the hands of the Registrar of the University of Manitoba by April 1st of each year, and the appointment will be made on or about May 1st of each year. The Fellow will be required to commence his work at the University of Manitoba not later than the opening of the following session.

CLIFFORD MOIR PRIZE

A money prize of \$100.00, given by Mr. and Mrs. J. J. Moir of Killarney, Man., in memory of their son the late Clifford James Moir, B.A., 1916, who gave his life in his country's service, June 30th, 1918, while a member of the Royal Air Force, is offered for competition each year among students graduating in Division D of the Course in Natural and Physical Science. The award of the money prize will be accompanied by the granting of a parchment certificate. The usual conditions of eligibility demanded for a gold medal will be exacted.

PHYSIOLOGICAL RESEARCH PRIZE

During the tenure of the chair of Physiology in this University by Professor Swale Vincent and largely as the result of his efforts a fund was established to provide annually, or at longer intervals, a prize for

original investigation carried out in the departments of Physiology or Biochemistry. The regulations governing the award of this prize are as follows:

- (1) The prize shall be called "The Physiological Research Prize."
- (2) The prize shall be awarded annually or biennially, or may be withheld at the discretion of the Committee (*vide infra*).
- (3) The interest on the money invested shall be utilized to provide a medal and a money prize for the report on an original investigation, which shall be deemed by the Committee to be of the greatest merit.
- (4) The essay submitted must in each case contain an account of original investigation carried out wholly or in part in the Department of Physiology or of Biochemistry of the University of Manitoba.
- (5) The subject of the investigation shall be some branch of Physiology or some allied medical or biological subject, and shall be approved by the Committee before the work is commenced.
- (6) Work carried out in conjunction with another investigator or results published conjointly with another author may be submitted by a candidate for the prize. In such cases the Committee will take into consideration the part actually taken by the candidate in the work done. Further, in such cases, the candidate must send in an account of the results obtained in the form of an essay, which must be his own unaided composition.
- (7) Registered students of the University of Manitoba, and members of the staff other than professors or lecturers, shall be eligible to compete.
- (8) Medical practitioners shall be eligible to compete on registration as students of the University.
- (9) The duty of awarding the prize shall be delegated to a committee consisting of the Professor of Physiology and two others selected annually by the University Council.
- (10) Essays must be in the hands of the Registrar before April 30th of each year.

SCIENTIFIC CLUB'S RESEARCH PRIZE

The Scientific Club of Winnipeg, desiring to foster a spirit of research in the University of Manitoba, offers from time to time a prize known as the Research Prize of the Scientific Club of Winnipeg. The next award will probably be made at the Spring Convocation of 1928. The conditions of award will be set forth in the 1926-1927 Calendar.

LOAN SCHOLARSHIP FUND OF THE UNIVERSITY WOMEN'S CLUB

The University Women's Club has established a Loan Scholarship Fund, the purpose of which is to give financial assistance to women students of Manitoba University, by loaning them sums of money. No interest is charged on the loans, and the period of repayment is arranged to suit the convenience of the applicant. Enquiries may be addressed to the Dean of Women of the University, or of an affiliated college, or to Miss Myrtle Lewis, 863 Wolseley Avenue, Winnipeg.

SCHOLARSHIP OF THE FEDERATION OF UNIVERSITY WOMEN IN CANADA

1. The Scholarship of the Federation of University Women in Canada, of the value of \$1000, available for study or research work, is open to any woman holding a degree from a Canadian University. In general, preference will be given to those candidates who have completed at least one or two years at graduate study and have a definite research in preparation. The award is based on evidence of character and ability of the candidate and promise of success in the subject to which she is devoting herself.

2. There are no application blanks, and application is made by letter to the Convener of the Scholarship Committee, Mrs. Douglas Thom, 2220, 16th Ave., Regina, Sask.

Applications and recommendations must be received not later than February 1st. None can be accepted after that date.

3. The letter of application should contain an account of the applicant's educational training and a statement in full of the plan of study or research she intends to pursue. This information should be accompanied by:

(a) A written statement from the President or Acting President of the college or university awarding the degrees held by the applicant to the effect that her application as a suitable candidate is approved.

(b) Testimonials as to her health, character, ability and scholarship.

(c) Theses, papers or reports of investigations published or unpublished. The Committee cannot assume any responsibility for collecting testimonials for an applicant.

These papers, etc., and letters submitted by the applicant, will be returned if postage is sent for that purpose. Confidential letters sent are kept.

4. The choice of the University at which the successful candidate shall pursue her study or research work is left to the Committee of Selection, in consultation with the candidate.

5. The scholarship is payable in two equal instalments on July 1st and January 1st by the Treasurer of the Federation, provided the successful applicant sends her address for those dates.

UNIVERSITY TRAVELLING FELLOWSHIPS

Two University Travelling Fellowships, each of the value of \$500.00 are offered for award each year to graduates of the University of Manitoba and under the following conditions:

1. The object of the award of these Fellowships shall be to assist the students to whom they are given to enter upon graduate work in an approved University.

2. One Fellowship shall be awarded each year to a Bachelor of Arts of the University of Manitoba and one every alternate year, beginning 1925, to a Bachelor of Science of the University of Manitoba and one every alternate year, beginning 1926, to a Bachelor of Science in Engineering of the University of Manitoba.

3. In order to be eligible to become a candidate for one of these fellowships, a student must—

(a) Hold the requisite degrees of the University of Manitoba as indicated above.

(b) Have spent at least three academic years in attendance at the University of Manitoba or an affiliated College.

(c) Be not more than twenty-five years of age (that is the University Council must be assured that he will not have attained his twenty-sixth birthday by October 1st of the year for which the fellowship is awarded).

4. In considering the claim of each candidate for a University Traveling Fellowship, the Committee of Nomination shall take into account the following:

(a) The candidate's scholarship as shown by his undergraduate course and subsequent studies, if any;

(b) The candidate's personality and general record;

(c) The candidate's ability to profit by postgraduate studies;

(d) The relation of the postgraduate course proposed by him, both to his undergraduate studies and to the career he plans to follow.

THE RHODES SCHOLARSHIPS

By the will of the late Mr. Cecil Rhodes, a scholarship of the value of £300 yearly, tenable at any college in the University of Oxford for three consecutive academical years, has been allotted to the Province of Manitoba. Nominations to the scholarship are made by a committee of former Rhodes scholars now resident in Manitoba, under the chairmanship of Mr. Justice Perdue. The secretary of the committee is Professor Chester Martin of the University Arts Faculty. One appointment is made by the trustees in each year. Nomination of the 1926 scholar will be made in November, 1925. For a form of application request should be made to the secretary of the committee.

The following information as to the requirements and procedure in connection with appointments to Rhodes scholarships, as hitherto prevailing, is appended:

In order to be eligible for nomination to this scholarship, candidates—

(a) Must be British subjects, with at least five years' domicile in Canada, and unmarried.

(b) Must have spent four years in Manitoba educational institutions, two at least of which must have been as registered undergraduates of the University of Manitoba.

(c) Must have passed their nineteenth, but not have passed their twenty-fifth birthday, on October 1st of the year for which they are elected.

The University of Manitoba has been admitted by the University of Oxford to the privileges of the Statute on Colonial and Indian Universities. This statute relieves its students of a certain standing from the requirements of Responsions (the first public examination

exacted by the University of Oxford from each candidate for a degree), providing a sufficient knowledge of the Greek language has been shown. It also admits to Junior or Senior status, as follows:—

(a) Any member of a University so admitted, who shall have pursued a course of study prescribed by it and extending over two years, and who shall have passed all the examinations incident to the course, may be admitted to the status and privileges of a Junior Colonial or Indian Student.

(b) Any member of a University so admitted, who shall have pursued a course of study prescribed by it and extending over three full years, and who shall have taken honors in the final examination incident to the course, may be admitted to the status and privileges of a Senior Colonial or Indian Student.

Candidates for the scholarship, therefore, who have satisfied the condition of eligibility which requires a record of at least two years of undergraduate work in the University of Manitoba, are relieved of the necessity of passing a preliminary or qualifying examination, provided they hold standing in Greek equivalent at least to that of the Second Year in Arts.

If the University of Manitoba did not enjoy this privilege under the Statute on Colonial and Indian Universities, or if the two years of undergraduate work of the prospective candidate were not sufficient to relieve him from Responsions, a qualifying examination would be held prior to the election.

This examination is not competitive, but is intended to give assurance that all candidates are fully qualified to enter on a course of study at Oxford University. It is therefore based on the requirements for Responsions. Rhodes scholars may be selected from candidates who have successfully passed this preliminary examination.

Candidates must offer the following:

(1) Arithmetic—the whole.

(2) Either Algebra—

Addition, Subtraction, Multiplication, Division, Greatest Common Measure, Least Common Multiple, Fractions, Extraction of Square Root, Simple Equations containing one or two unknown quantities, and problems producing such equations.

Or the Elements of Geometry—

Elementary Questions, including propositions enunciated by Euclid, and easy deductions therefrom, will be set on the subject-matter contained in the following portions of Euclid's Elements, viz.:

Book I—The whole, excluding propositions 7, 16, 17, 21.

Book II—The whole, excluding proposition 8.

Book III—The whole, excluding propositions 2, 4 to 10, 13, 23, 24, 26 to 29.

Any method of proof will be accepted which shows clearness and accuracy in geometrical reasoning. So far as possible, candidates should aim at making the proof of any proposition complete in itself. In the case of propositions 1 to 7, 9, 10 of Book II, algebraical proofs will be allowed.

(2) Greek and Latin Grammar.

(3) Translation from English into Latin prose.

(4) Greek and Latin Authors.

Candidates must offer two books, one Greek and one Latin or Unseen Translation.

The following portions of the undermentioned authors will be accepted:

Demosthenes—De Corona.

Euripides—Any two of the following plays: Hecuba, Medea, Alcestis, Bacchae.

Homer—(1) Iliad 1—5, or 2—6; or (2) Odyssey 1—5, or 2—6.

Plato—Apology and Crito.

Sophocles—Antigone and Ajax.

Xenophon—Anabasis—1-4, or 2-5.

Caesar—De Bello Gallico, 1-4.

Cicero—(1) the first two Phillippic Orations; or (2) the first three Catiline Orations, and *In Verrem*, Act I; or (3) the Orations, *Pro Murena* and *Pro Lege Manilia*; or (4) the treatises, *De Senectute* and *De Amicitia*.

Horace—(1) *Odes* 1-4; or (2) *Satires*; or (3) *Epistles*.

Livy—Books V, VI.

Virgil—(1) the *Bucolics*, with Books 1-3 of the *Aeneid*; or (2) the *Georgics*; or (3) the *Aeneid*, Books 1-5, or 2-6.

The texts used in setting the examination papers will be those of the Series of Oxford Classical Texts, so far as these have been published by the Oxford University Press.

Papers covering this range of study will be prepared by examiners appointed by the Trustees, and will be sent to each centre, where required, and at a date publicly announced, the examination will be held under proper supervision, and the papers returned to the examiners. A list of those who have successfully passed this test will, as soon as possible, be furnished the Committee of Selection, and from this list, and a list of other eligible candidates, the Committee will proceed to elect the scholar.

Candidates for the scholarship should, during the month of December, notify the Secretary of the Committee of Selection of their intention of becoming such candidates, forwarding at the same time a detailed statement of their record, proof of all matters necessary to establish their eligibility, and a list of references with whom the Committee of Selection may communicate respecting their fitness for appointment. The decision of the Committee of Selection is final.

The following extract from the will of the late Right Hon. Cecil John Rhodes serves to indicate some of the considerations taken into account in elections to this scholarship:

"My desire being that the students who shall be elected to the scholarships shall not be merely bookworms, I direct that in the election of a student to a scholarship regard shall be had to (1) his literary and scholastic attainments; (2) his fondness of and success in manly outdoor sports, such as cricket, football and the like; (3) his qualities of manhood, truth, courage, devotion to duty, sympathy for and protection of the weak, kindliness, unselfishness and fellowship; and (4) his exhibition during school days of moral force of character and of instincts to lead and to take an interest in his schoolmates; for those latter attributes will be likely in after life to guide him to esteem the performance of public duties as his highest aim. As mere suggestions for the guidance of those who will have the choice of students for the scholarships, I record that (1) my ideal qualified student would combine these four qualifications in the proportions of three-tenths for the first, two-tenths for the second, three-tenths for the third, and two-tenths for the fourth qualifications, so that according to my ideas, if the maximum number of marks for any scholarship were 200 they would be apportioned as follows: 60 to each of the first and third qualifications and 40 to each of the second and fourth qualifications; (2) the marks of the several qualifications would be awarded independently as follows (that is to say) the marks for the first qualification by examination, for the second and third qualification respectively by ballot by the fellow-students of the candidates, and for the fourth qualification by the head master of the candidate's school; and (3) the results of the awards (that is to say, the marks obtained by each candidate for each qualification) would be sent as soon as possible for consideration to the trustees or to some person or persons appointed to receive the same, and the person or persons so appointed would ascertain by averaging the marks in blocks of 20 marks each of all candidates the best ideal qualified students."

No student shall be qualified or disqualified for election to scholarship on account of his race or religious opinions.

The Committee of Selection is asked to furnish to the Trustees as full a statement as possible of the school and college career of each elected scholar, with the special grounds of his appointment, together with suggestions, if desired, as to the course of study for which he is best fitted.

A qualified student who has been elected as aforesaid shall within six calendar months after his election, or as soon thereafter as he can be admitted into residence, or within such extended time as the Trustees shall allow, commence residence as an undergraduate at some college in the University of Oxford. The scholarship is payable to him from the time when he commences such residence.

Any inquires about Oxford, its colleges and the courses of study there, should be addressed to F. J. Wylie, Esq., the Oxford agent of the Rhodes Trustees.

Copies of Oxford Responson papers for past years can be obtained from the Copp, Clark Company, Toronto. The Students' Handbook of Oxford can be ordered at the same address. It gives full information about the examinations of the University, subject to changes made since the last edition was issued. "Oxford As It Is," a small pamphlet prepared by Mr. Louis Dyer, of Harvard and Balliol Colleges, for the use of American candidates, gives all essential information in a condensed form. It can also be ordered from the Copp, Clark Company, Toronto. "Oxford and Its Colleges," written by Mr. J. Wells, of Wadham College, and "Oxford and Oxford Life," edited by the same gentleman, may be recommended to those who wish to gain full information about the University and its Colleges.

MEDALS IN ARTS AND SCIENCE

1. The Governor-General's Gold Medal, the gift of His Excellency the Governor-General, is offered annually for competition among students who have completed the Junior Division and sixteen units in either the Senior Pass or the Senior Honors Division, the aggregate upon the entire fifty-six units of work then completed being taken into account.

*2. A University Gold Medal and a University Silver Medal are offered for competition annually among students completing the work of the Senior Pass Division in Arts and Science and proceeding to the B.A. or B.Sc. degree, comparison being made on the basis of the method of raised percentages used in the determination of general proficiency scholarship awards and the students' records being considered for the last sixteen units of credit they have earned, on the aggregate of which they must have attained a standard of at least 80 per cent., and twelve of which must be for work normally taken in the second year of the Senior Pass Division.

*3. Five University Gold Medals are offered for competition annually among students completing the work of the Senior Honors Divisions in Arts and Science, and proceeding to the B.A. Honors or B.Sc. Honors degree who have attained a standard of at least 80 per cent. on both their subjects, comparison being made on the basis of the method of raised percentages used in the determination of general proficiency scholarship awards and the students' records being considered for the last sixteen units of credit they have earned, all of which must be for work normally taken in the third year of the Senior Honors Division.

MEDALS IN PHARMACY

A *Silver Medal*, offered by the Council of the Manitoba Pharmaceutical Association, is awarded annually to the student standing first in order of merit at the examination of the first year of the diploma course in Pharmacy, provided his standing on the aggregate of the marks be 80 per cent. or above.

*The medals offered in paragraphs 2 and 3 above will be first awarded in 1927. The award of medals in Arts and Science in 1926 will be on the basis announced in the 1924-1925 Calendar.

A *Gold Medal*, offered by the Council of the Manitoba Pharmaceutical Association, is awarded annually to the student standing first in the order of merit at the examination of the Second Year of the diploma course in Pharmacy, provided his standing on the aggregate of the marks be 90 per cent. or above.

A *Silver Medal*, offered by the Council of the Manitoba Pharmaceutical Association, is awarded annually to the student standing first (or second) in the order of merit at the examination of the Second Year of the diploma course in Pharmacy, provided his standing on the aggregate of the marks be 80 per cent. or above.

A *Silver Medal*, known as the Flexon Silver Medal, offered by the Council of the Manitoba Pharmaceutical Association, in memory of Mr. Charles Flexon, a former president of the Association, is awarded annually to the student ranking highest (with 85 per cent. or above) in the subject of Chemistry of the Second Year of the diploma course in Pharmacy.

DEGREES IN ABSENTIA

No degree will be conferred *in absentia* except where good reasons for absence have been submitted to, and approved by the Board of Studies, or the Council, and an additional fee of ten dollars may be exacted in each case where permission is granted.

GRADING OF DEGREES

All degree diplomas granted by the University are graded as follows: *rite*, indicating standing between the pass mark and 66 per cent., inclusive; *cum laude*, indicating standing between 67 per cent. and 79 per cent., inclusive; *magna cum laude*, indicating standing of 80 per cent. and above.

UNIVERSITY DRESS

The materials and colors prescribed by the Council for the hoods to be worn by graduates of the University are as follows:

- B.A.—Black stuff, edged with white rabbit skin, with a braid of green silk.
- M.A.—Black corded silk, lined with scarlet corded silk.
- M.D.—Black cashmere, lined with purple corded silk.
- M.D., C.M.—Black cashmere, lined with purple corded silk and edged with violet silk.
- LL.B.—Black silk stuff, lined with white silk, edged with narrow white rabbit skin, and narrow green silk braid along the border.
- B.S.A.—Black, lined with green, and edged with white rabbit skin.
- B.Sc.—Black, lined with gold-yellow and edged with white rabbit skin.
- B.Sc. (Phar.)—Black, lined with light blue and edged with white rabbit skin.
- B.Sc. (C.E.)—Black, lined with yellow and edged with white rabbit skin.
- M.C.E.—Black, lined with yellow.
- B.Sc. (E.E.)—Black, lined with yellow and edged with white rabbit skin.
- M.E.E.—Black, lined with yellow.
- B.M.E.—Black, lined with yellow and edged with white rabbit skin.
- LL.D.—Scarlet cloth lined with white moire silk.
- B.Sc. (H.Ec.)—Black, lined with gold-yellow and edged with white rabbit skin.

UNIVERSITY BOOK DEPARTMENT

In order to ensure prompt and reliable service in connection with the supply of text books, notebooks and other materials for students' use, the University operates a book store in the basement of the Arts Building on Kennedy Street, at which everything of this nature can be purchased at the lowest possible prices. Students are urged to make full use of the facilities provided. Any who expect to have available time during the summer are strongly advised to secure as many texts as possible before leaving for the vacation. Extra-mural students may secure their books and supplies by mail.

Address all orders to

The Manager,

UNIVERSITY OF MANITOBA BOOK DEPARTMENT
WINNIPEG.

FEES

The following fees are required and must be paid to the Accountant of the University in advance. Regular Examination fees are payable at the time of registration, degree fees not later than the last date for payment of first term tuition fees of the final year. Supplemental examination fees are payable at the time application for the examination is made. The fees for admission *ad eundem statum* or *ad eundem gradum* are payable at the time application therefor is made.

EXAMINATIONS IN ARTS AND SCIENCE

Regular Examinations—

Junior Division in Arts and Science—

Each four-unit subject.....\$2.00
and proportionately for subjects of differing credit value.

Senior Division in Arts and Science—

Each four-unit subject.....\$2.50
and proportionately for subjects of differing credit value.

Supplemental Examinations—

Junior Division in Arts and Science—

\$3.00 for the first hour-and-a-half unit and 50 cents for each additional hour-and-a-half unit, whether of half or full papers, up to a maximum of \$8.00.

Senior Division in Arts and Science—

\$3.00 for the first hour-and-a-half paper and \$6.00 for the first three-hour paper with 50 cents for each additional half paper and \$1.00 for each additional full paper until a maximum of \$8.00 is reached.

EXAMINATIONS IN PHARMACY

Regular Examinations—

Each annual session.....\$10.00

Supplemental Examinations—

First Year as in Junior Division in Arts and Science.

Second Year as in Senior Division in Arts and Science.

TUITION IN ARTS AND SCIENCE

Junior Division—

Each four-unit subject.....\$10.00
and proportionately for subjects of differing credit value.

Senior Division—

Each four-unit subject.....\$12.50
and proportionately for subjects of differing credit value.

TUITION IN PHARMACY

Each annual session.....\$75.00

(The tuition fee of each special student is determined by the Dean of the Faculty concerned after consultation with the Professor in whose department the student receives instruction.)

Payment of Second Term tuition fees may be deferred to first week of of the Second Term, but only on the basis of an increase of 10 per cent.

MISCELLANEOUS FEES

Laboratory Fees

Laboratory fees are charged students taking courses in Science on the following scale, viz., \$2.50 per full subject in the Junior Division and Senior Pass Division and \$5.00 per full subject in Senior Honors Division in Arts and Science. The maximum laboratory fee in the Junior Division will be \$5.00 and in the Senior Division will be \$10.00.

Degrees

For the Degree of B.A.....	\$10.00
For the Degree of M.A.....	10.00
For the Degree of LL.B.....	10.00
For the Degree of B.Sc. (Phar.).....	10.00
For the Degree of B.Sc.....	10.00
For the Degree of M.Sc.....	10.00
For the Diploma in Pharmacy.....	10.00
For the conferring of any Degree <i>in absentia</i> (for which the consent of the Board of Studies or the University Council must be secured), an additional fee of.....	\$10.00
For admission <i>ad eundem statum</i>	5.00
For admission <i>ad eundem gradum</i>	5.00

General

Appeals, each paper.....	\$2.00
Registration (payable the first time a student registers in any Faculty).....	2.00
For a Certificate of Standing.....	2.00
For a Statement of Marks, on request.....	1.00

Caution Money

All students taking practical or laboratory classes in the University, are required to deposit with the Accountant at the beginning of each session the sum of \$5.00. Against this will be assessed the value of all apparatus broken or materials wasted in any way other than in the legitimate course of class work, and the balance will be refunded at the close of the term. All other male students make a caution money deposit of \$2.00.

Student Organization Fees

The annual fee as set by the various student groups (University Arts, Science, or Pharmacy) for their members is paid to the Accountant at the time of registration and these sums are held by him to the credit of the respective student treasurers.

THE UNIVERSITY LIBRARY

Frank Emmett Nuttall, M.A., Librarian

The Library occupies three rooms in the old Law Courts, of which the main reading room was formerly the library of the Law Society. The total number of volumes may be estimated at 38,000, and the annual accessions are about 2,000 volumes. The nucleus of the collection was that portion of the Isbister library which escaped destruction by fire, but the greater part of it has been acquired during the past fourteen years by purchase or by gift.

The following periodicals are received by the University:

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| Action Française | Berichte der deutschen botanischen Gesellschaft |
| Agricultural Gazette of Canada | Berichte der deutschen chemischen Gesellschaft |
| Agricultural Research Institute, Pusa: Bulletin | Biometrika |
| American Architect and Architectural Review | Booklist |
| American Economic Review | Bookman (New York) |
| American Institute of Actuaries: Record | Bookman (London) |
| American Historical Review | Botanical Abstracts |
| American Journal of Anatomy | Botanical Gazette |
| American Journal of Archaeology | Botanisches Centralblatt |
| American Journal of International Law | British Journal of Radiology |
| American Journal of Mathematics | Brown and Gold: Year Book of the University of Manitoba Students' Union |
| American Journal of Pharmacy | Bulletin Astronomique |
| American Journal of Philology | Bulletin of the Bureau of Education (Department of the Interior, U.S.A.) |
| American Journal of Science | Bulletin of the Geological Society of America |
| American Journal of Semitic Languages and Literatures | Bulletin of the National Tax Association |
| American Mathematical Monthly | Bulletin de la Société chimique de France |
| American Mineralogist | |
| American Naturalist | |
| American Railway Association: Telegraph and Telephone Section: Proceedings | |
| Anatomischer Anzeiger | |
| Ancient Egypt | |
| Anglia | Canada: Monthly Bulletin of Agricultural Statistics. |
| Anglia: Beiblatt | Canada Year Book |
| Annalen der Physik | Canadian Bookman |
| Annales de Chimie | Canadian Engineer |
| Annales de Physique | Canadian Entomologist |
| Annales politiques et littéraires | Canadian Field Naturalist |
| Annals of the American Academy of Political and Social Science | Canadian Forum |
| Annals of Botany | Canadian Historical Review |
| Annals of Mathematics | Canadian Magazine |
| Architectural Forum | Canadian Pharmaceutical Journal |
| Architectural Record | Canadian Railway and Marine World |
| Architectural Review (London) | Car and Golf |
| Architecture | Centralblatt für Mineralogie, Geologie und Palaeontologie |
| Archiv für Geschichte der Philosophie | Century |
| Art and Archaeology | Chase Economic Bulletin |
| Astronomical Journal | Chemical Age |
| Astrophysical Journal | Chemical and Metallurgical Engineering |
| Atlantic Monthly | Chemical News |
| Auk | Chemisches Zentralblatt |
| | Classical Journal |
| | Classical Philology |
| | Classical Quarterly |
| | Classical Review |
| Bankers Magazine (American) | Classical Weekly |
| Bankers' Magazine (English) | Combustion |
| Beama | Commercial Intelligence Journal |
| Bell Telephone Quarterly | Compressed Air Magazine |
| Bengal Agricultural Journal | |

- Comptes rendus de l'Académie des Sciences
Concrete and Constructional Engineering
Concrete Builder
Concrete Highway Magazine
Construction
Contemporary Review
Contract Record
Contractor's Atlas
Criterion
Cumulative Book Index
- Dalhousie Review
Deutsche Literaturzeitung
Digest (General Electric Company)
Dominion of Canada: Meteorological Service, Daily Weather Maps
Druggists' Circular
- Economica
Economic Geology
Economist
Educational Review
Electrical News
Electrical Review (English)
Electrical World
Electrician
Electric Journal
Electric Railway Journal
Empire Mail
Engineer
Engineering
Engineering and Contracting
Engineering and Mining Journal-Press
Engineering Journal (Canada)
Engineering News Record
Englische Studien
English Historical Review
English Journal
Entomological News
Explosive Engineer
Export World
- Financial Post of Canada
Fortnightly Review
Fortschritte der Mineralogie, Krystallographie und Petrographie
- Gazzetta Chimica Italiana
General Electric Review
Génie Civil
Geographical Journal
Geological Magazine
Grinnell Company Bulletin
- Harvard Business Review
Harvard Economic Service: Weekly Letter
Harvard Economic Service: Review of Economic Statistics.
Harvard Studies in Classical Philology
Hibbert Journal
History
House and Garden
- Illustration
Inter-America (English)
Inter-America (Spanish)
International Conciliation
International Index to Periodicals
International Journal of Ethics
International Studio
- Jahrbucher für wissenschaftliche Botanik
Johns Hopkins University Circular
Journal Asiatique
- Journal de Physique
Journal of Agricultural Research
Journal of American Folk-lore
Journal of the American Institute of Architects
Journal and Transactions of the American Society of Heating and Ventilating Engineers
Journal of the American Institute of Electrical Engineers
Journal of the American Oriental Society
Journal of the Society of Automotive Engineers
Journal of American Waterworks' Association
Journal of the Canadian Bankers' Association
Journal of the Chemical Society
Journal of Comparative Legislation and International Law
Journal of Education
Journal of the Elisha Mitchel Scientific Society
Journal of English and Germanic Philology
Journal of Geology
Journal of the Institution of Electrical Engineers
Journal of the Iron and Steel Institute
Journal de Mathématiques
Journal of the New England Water Works Association
Journal of the New York Entomological Society
Journal of Parasitology
Journal of Philosophy
Journal of Physical Chemistry
Journal of Political Economy
Journal of the Royal Asiatic Society
Journal of the Royal Institute of British Architects
Journal of the Royal Microscopical Society
Justus Liebig's Annalen der Chemie
- Labour Gazette
Land and Freedom
Lefax Data Sheets (Civil, Electrical, Mechanical, Mining)
Library Journal
Literatur
London and Cambridge Economic Service
Monthly Bulletin
London and Cambridge Economic Service
Special Memorandum
London Mercury
- Manitoba Free Press (Morning)
Manitoba Gazette
Manitoban
Manitoba Veteran
Mathematical Gazette
Mathematische Annalen
Mechanical Engineering (A. S. M. E.)
Mechanical World
Memoirs of the Department of Agriculture in India—Bacteriological Series
—Botanical Series
—Chemical Series
—Entomological Series
Memoirs of the Geological Survey
Messenger of Mathematics
Miami Conservancy Bulletin
Mind
Minnesota History Bulletin
Modern Language Notes

Modern Language Review
 Modern Philology
 Monthly Evening Sky Map
 Monthly Notices of the Royal Astronomical Society
 Monthly Report of the Department of Trade, etc., of Canada
 Municipal and County Engineering
 Municipal Improvements
 Municipal Review
 Municipal Review (Canada)

Nation
 National Engineer
 Nation and The Athenaeum
 Natural History
 Nature
 Neueren Sprachen (Die)
 Neue Rundschau
 Neues Jahrbuch für Mineralogie, Geologie und Paläontologie
 New Phytologist
 New Republic
 New Statesman
 Nineteenth Century and After
 North American Flora
 Notes and Queries
 Nouvelles Annales de Mathématiques
 Nuovo Cimento

Observatory
 Ontario Library Review
 Ontario: Hydro-Electric Power Commission: Bulletin
 Orientalistische Literaturzeitung

Parks and Recreation
 Petite Illustration
 Pharmaceutical Journal
 Philologische Wochenschrift
 Philosophical Magazine
 Philosophical Review
 Philosophical Transactions of the Royal Society of London (Series A)
 Philosophical Transactions of the Royal Society of London (Series B)
 Physical Review
 Physical Society of London: Proceedings
 Physikalische Zeitschrift
 Plant Immigrants
 Poet Lore
 Poetry Review
 Political Science Quarterly
 Polytechnic Magazine
 Popular Astronomy
 Power
 Power Plant Engineering
 Proceedings of the Academy of Political Science
 Proceedings of the American Concrete Institute
 Proceedings of the American Society of Testing Materials
 Proceedings of the Casualty Actuarial Society
 Proceedings of the Entomological Society of Washington
 Proceedings of the Institute of Radio-Engineers
 Proceedings of the Institution of Civil Engineers
 Proceedings of the London Mathematical Society
 Proceedings of the National Academy of Sciences of U.S.A.

Proceedings of the Royal Society (Series A)
 Proceedings of the Royal Society (Series B)
 Proceedings of the Zoological Society of London
 Psychological Review
 Publications of the Dominion Astrophysical Observatory
 Publications of the Dominion Observatory
 Publications of the Modern Language Association of America

Quarterly Journal of Economics
 Quarterly Journal of the Geological Society
 Quarterly Journal of Mathematics
 Quarterly Journal of Microscopical Science
 Quarterly Journal of the Royal Meteorological Society
 Quarterly Journal of the University of North Dakota
 Quarterly Review
 Queen's Quarterly

Railway Age
 Readers' Guide to Periodical Literature
 Refrigerating Engineering
 Review of Applied Entomology (Series A)
 Review of Applied Entomology (Series B)
 Revue de Métaphysique et de Morale
 Revue des Deux Mondes
 Revue Générale de l'Électricité
 Revue Hebdomadaire
 Revue Historique
 Revue Scientifique
 Rhodora
 Romania
 Round Table
 Russell Sage Foundation: Publications

School Life
 School of Mines and Metallurgy (University of Missouri)
 School Review
 School Science and Mathematics
 Science
 Science Abstracts—Sec. A—Physics
 Science and Invention
 Scientific American
 Scientific Monthly
 Scientific Papers of the Bureau of Standards
 Seasonable Hints: Eastern and B.C. Edition
 Seasonable Hints: Prairie Edition
 Smithsonian Miscellaneous Collections
 Spectator
 Spectator (New York)
 Statistical Bulletin, Metropolitan Life Insurance Co.

Telephone Engineer
 Times (London), Educational Supplement
 Times (London), Literary Supplement
 Times Weekly Edition
 Transactions of the Actuarial Society of America
 Transactions of the American Entomological Society
 Transactions of the American Society of Civil Engineers
 Transactions of the American Institute of Electrical Engineers
 Transactions of the American Mathematical Society
 Transactions of the Faraday Society

Transactions of the Illuminating Engineering Society
 Transactions of the Royal Society of Canada
 Transactions and Yearbook of the University of Toronto Engineering Society

United Empire
 United States Geological Survey: Bulletin and Water Supply Papers
 University of Illinois Bulletin
 University of Illinois Studies in Language and Literature
 University of Illinois Studies in the Social Sciences
 University of Iowa: Studies in Child Welfare
 University Monthly (Toronto)
 University of the State of New York: Bulletin, New York State Library; Bibliographic Bulletin

University of Wisconsin Studies in Language and Literature

Valve World

Western Municipal News
 Woche

Yale Review

Zeitschrift für Botanik
 Zeitschrift für Instrumentenkunde
 Zeitschrift für Kristallographie und Mineralogie
 Zeitschrift für Physik
 Zeitschrift für Physikalische Chemie
 Zeitschrift für Technische Physik
 Zoologica

UNIVERSITY OF MANITOBA ALUMNI ASSOCIATION

Every graduate of the University of Manitoba is eligible for membership in the Alumni Association. The Association serves a two-fold purpose: it enables graduates to remain in touch with each other and with their Alma Mater, and to retain an interest in higher learning, and it brings to the support of the University an organized and well-informed body of public opinion whose guidance and sympathy are invaluable.

The annual meeting of the Alumni Association is held on Convocation day in each year, when general business is transacted, reports received and officers elected for the ensuing term. The list of officers for 1924-1925 is as follows:

<i>Honorary President</i>	Dr. Robert Fletcher
<i>Vice-President</i>	Doris Saunders, B.A. (1921)
<i>Treasurer</i>	Max Steinkopf, B.A. (1902)
<i>Secretary</i>	Wilfred G. Rumball, B.A. (1921)

Directors

R. Fletcher Argue, M.A. (1921)
 Charles L. T. Arthur, M.D. (1915)
 Frederick Bamford, B.A. (1924)
 Edward Howard Brown, Dipl. in Pharmacy (1922)
 Rev. Herbert Cawley, B.A. (1910)
 James H. Evans, B.S.A. (1912)
 Edith Gray, B.A. (1919)
 Narcisse A. Laurendeau, M.D. (1911)
 Ernest T. Leech, B.A. (1901)
 Andrew P. McKinnon, M.D., C.M. (1922)
 Celia E. Mitchell, B.A. (1915)
 Harry Stanley Rimmington, B.C.E. (1911)
 Mrs. N. R. Wilson, B.A., LL.B. (1917)

CANADIAN OFFICERS' TRAINING CORPS

University of Manitoba Contingent

After a period of most useful service in supplying trained officers and men for the C.E.F. during the Great War, the Manitoba Contingent of the C.O.T.C. was re-organized, and established on a four-company basis, during the Autumn of the 1919-20 session.

The C.O.T.C. is a unit of the non-permanent Active Militia, but forms no part of the organization for war, and cannot be called out for active service as such. Its primary object is to provide students at Universities with a standardized measure of military training with a view to their qualifying for commissions in the country's auxiliary forces, to enable them to give personal service to their country with the least possible interference with their civil careers, to ensure that Militia units have their establishments complete in the junior commissioned ranks, and to build up an adequate reserve of scientifically trained officers who have completed a period of consecutive and systematic military training, on academic lines, of a nature calculated to produce good officers.

In the Manitoba Contingent this training is carried out by officers and N.C.O.'s attached from the Permanent Force of M.D. No. 10, who work in the closest co-operation with the officers and N.C.O.'s of the unit.

To qualify as "efficient" a member of the Contingent must attend 40 parades if in his first year of service, and 25 if in a subsequent year, and must complete the prescribed course of musketry. He may then continue his training during the following year and present himself in March at the examination for Certificate "A" (Lieutenant's). If successful in this examination he may, after a further year's training, take the examination for Certificate "B" (Captain's). These examinations are conducted by the War Office, London, and are the same for all contingents of the O.T.C. throughout the Empire.

Members of the C.O.T.C. are supplied with a free issue of uniforms, and receive pay in proportion to the number of days devoted to training.

Apart from the military and physical training and the musketry instruction (conducted as far as possible during the Autumn on the St Charles Rifle Range), there are special features of a social nature held under the auspices of the O.T.C. such as the annual dinner, the annual smoker, etc., which afford facilities for the members to become acquainted with one another.

Since reorganization 57 members have qualified for certificate "A" and 18 for "B". In March, 1925, 24 members wrote on the former and 12 on the latter.

Lieut. J. S. Merrett, Sgt. W. D. Van Vliet and Cpl. D. S. Patterson qualified in the first year's training in the Canadian Air Force at Camp Borden during the summer of 1924, and will continue the training during the summer of 1925. In addition, Ptes. H. M. Kennedy, A. T. McCormick and B. C. Blasdale will commence their first year's training at Camp Borden during the summer of 1925.

R.Q.M.S. R. B. Sanders, C.S.M. J. R. Dawson, Sgt. G. McDermid and Pte. E. Oddlafson have been selected to take the first year's course in Signalling at the Royal Canadian Corps of Signals School at Camp Borden during the summer of 1925.

During the last five years the Unit has supplied the following officers to the Permanent Force of Canada:

Pilot Officer C. M. Anderson.....	R.C.A.F.
Pilot Officer R. Slemon.....	R.C.A.F.
Lieut. H. D. Cluff.....	R.C.C.O.S.
Lieut. W. E. Leppard.....	R.C.C.O.S.
Lieut. H. A. Young.....	R.C.C.O.S.
Lieut. K. C. McCullagh.....	R.C.C.O.S.

There is no doubt that further commissions will be granted in the future.

The organization of the University of Manitoba C.O.T.C. during the 1924-25 session was as follows:

Officer Commanding.....	Lt.-Col. N. B. MacLean, D.S.O.
Second in Command.....	Major N. R. Wilson
Adjutant.....	Major R. S. Carey
Quartermaster.....	Captain A. B. Rosevear
Paymaster.....	Major R. K. Finlayson

"A" Company

Major H. S. Robinson
 Captain L. J. Brown
 Lieut. W. Hasselfield
 Lieut. V. A. Jack
 Lieut. E. R. Batho

"B" Company

Captain W. E. Cornish
 Captain F. E. Estlin
 Lieut. J. A. Wright
 Lieut. J. S. Merrett
 Lieut. F. G. Barnes
 Lieut. D. S. Young

"C" Company

Major R. F. Argue
 Lieut. O. Morgan
 Lieut. T. VanHeel
 Lieut. R. N. Frayne
 Lieut. L. W. Moffit

"D" Company

Lieut. G. B. MacNamara
 Lieut. F. C. H. Wild

STUDENT ORGANIZATIONS

University of Manitoba Students' Union Council, 1925-1926

Hon. President.....	John Abel, B.Sc., (C.E.)
President.....	Fred W. Bamford, B.A., (Law)
Vice-President.....	M. B. Perrin (Medicine)
Secretary.....	Chas. Walton (Science)
Treasurer.....	To be appointed

Committee—Earl Nicolson (Engineering); R. E. Cribb (Man. College); D. Stewart (Accountancy); K. M. Ralston (St. John's); H. L. Robson (Arts); L. Draper (Wesley); H. Giffin (Pharmacy); W. H. McEwen

(Agriculture); G. S. Thorvaldson (Retiring Council); Helen Marlatt (Women's Council); J. R. Vant (Athletics); D. A. MacLennan (Debating); Stan Patterson (Social); Gurney Evans (Dramatics); W. J. Spence (University Council).

The Manitoban

Editor-in-Chief.....Leonard L. Knott
(Staff to be appointed)

University of Manitoba Athletic Directorate, 1925-1926

Hon. President.....President James A. MacLean
President.....J. R. Vant

Student Christian Movement Executive 1925-1926

Hon. President.....R. Fletcher Argue, M.A.
President.....D. B. Sparling (Wesley)
Vice-President.....Alice Herriot (Home Economics)
Secretary.....Harold G. Robson (Wesley)
Treasurer.....Ruth Herriot (Arts)
Reporter.....Arthur Hay (Medicine)

Arts Council, 1925-1926

Senior Stick.....Hugh Robson
Lady Stick.....Dorothy Dickson
Secretary-Treasurer.....Brock Sanders
President Fourth Year and Vice-Stick.....Frank Garland
President Men's Athletics.....W. G. Speechly
President Women's Athletics.....Beverly Sharman
Chairman Social Committee.....Frank Garland
President Debating Society.....Dorothy Abbott
Third Year Representative.....Kathleen McMillan
Second Year Representative.....Phyllis Coulter
First Year Representative.....To be appointed
Representative from Men's Self-Government Committee.....Hugh Robson
Representative from Women's Self-Government Committee.....Marion Sellers
Chapel Representative.....George Buxton

Science Council, 1925-1926

Hon. President.....Professor Frank Allen
President.....Charles Walton
Vice-President.....Ida Armstrong
Secretary.....Norman Stein
Treasurer.....J. P. Tully
Representative on *Manitoban*.....J. P. Tully
Convener Social Committee.....R. Quinn
Convener Debating Committee.....G. Lamson
Convener Athletic Committee.....Lionel Simard
Third Year Representative.....To be appointed
Second Year Representative.....Frank Shepherd
First Year Representative.....To be appointed

Arts Athletic Council, 1925-1926

President.....	W. G. Speechly
Director of Tennis.....	Cyril Brooks
Director of Track.....	John Sweet
Director of Football.....	Alex. Cox
Director of Hockey.....	Lawson Glasgow
Director of Basketball.....	Frank Garland
Director of Curling.....	Norval Hunter
Director of Rugby.....	Gurney Evans
Director of Rowing.....	Hugh Robson
Director of Swimming.....	Gordon Taylor
Fourth Year Representative.....	Gordon Melsted
Third Year Representative.....	Gurney Evans
Second Year Representative.....	David Foster
First Year Representative.....	To be appointed

Executive of Alpha-Gamma (Associated Co-Eds.), 1925-1926

Lady Stick.....	Dorothy Dickson
President of Athletics.....	Beverly Sharman
President of S.C.M.....	Ruth Herriot
President of S.G.C.....	Marion Sellers
Vice-President of Associated Co-Eds.....	Mary Andrews
Secretary.....	Meryl Marshall
Poster-Maker.....	Eleanor Seale
Treasurer.....	From Class '29
Cafeteria Representative.....	Alixé Douglas

Students' Scientific Society, 1925-1926

Hon. President.....	Prof. J. S. DeLury
President.....	E. S. Fallis
Vice-President.....	Grace Cameron
Secretary.....	H. Brownell
Treasurer.....	G. MacDougall
Social Committee.....	May Lyons, Eileen Flannagan, J. Tully

Pharmacy Society, 1925-1926

President.....	Geo. K. Hill	Secretary.....	S. Leask
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Dramatic Society, 1925-1926

President.....	Gurney Evans	Secretary.....	Grace Parsons
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Menorah Society, 1925-1926

President.....	N. Zimmerman, B.A.	Secretary.....	Thelma Tessler
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Self-Government Committees, 1925-1926*Women's Committee—*

Chairman.....	Marion Sellers
Fourth Year Representatives.....	Dorothy Dickson (<i>ex officio</i>), Isabel Gunn, Hilda Kinney, Margaret Vant, Jean Reiger.
Third Year Representatives.....	Mary Andrews (<i>ex officio</i>), Marion Paterson, Edith Hawthorne, Kathleen McMillan.
Second Year Representatives.....	Corrinne Irwin, Margaret Wade.
First Year Representatives.....	To be appointed.

Men's Committee—

Chairman.....	Hugh Robson
Members of the Committee.....	The various class presidents in Arts.

STUDENTS IN ATTENDANCE, 1924-1925

ARTS AND SCIENCE

N.B.—Under the heading "College," U represents University; St. B., St. Boniface College; St. J., St. John's College; W., Wesley College; and XM., Extra-Mural. Where the student received instruction at more than one institution, this is indicated.

First Year—Group 1

<i>Name</i>	<i>College</i>	<i>Address</i>
Abbott, Susie E.	(XM)	Portage la Prairie, Man.
Abells, Harry	(U)	Winnipeg
Allen, John F.	(U)	Winnipeg
Alliston, Dorothy G.	(XM)	Portage la Prairie, Man.
Alsaker, Gladys A.	(U)	Winnipeg
Anderson, Florence I.	(U)	Winnipeg
Anderson, Kathleen M.	(U)	Stonewall, Man.
Andrusyshyn, Constantine	(U)	Winnipeg
Arnason, Epsteinn	(U)	Winnipeg
Ashworth, Kathleen M.	(W)	Coulter, Man.
Ball, Charles F.	(U St. J.)	Winnipeg
Baron, Edward	(XM)	Portage la Prairie, Man.
Barrett, Beryl	(W U)	Brookdale, Man.
Baru, Doris	(U)	Canora, Sask.
Bastedo, Edgar L.	(U)	Winnipeg
Batchelor, Leslie D.	(St. J.)	Calgary, Alta.
Batho, M. Bruce W.	(U)	Winnipeg
Bawlf, Rowena E.	(XM)	Winnipeg
Bay, Fanny R.	(U)	Winnipeg
Bay, Samson	(U)	Winnipeg
Belanger, Ulric	(St. B.)	St. Boniface, Man.
Béliveau, Louis	(St. B.)	St. Boniface, Man.
Bell, Herbert M.	(XM)	Minnedosa, Man.
Benson, Walter D.	(U)	Winnipeg
Bjarnason, Bjarni A.	(XM)	Arborg, Man.
Blair, Andrew D.	(St. J.)	Winnipeg
Bloomberg, Harry	(U)	Winnipeg
Bonin, Victor	(St. B.)	St. Boniface, Man.
Boxer, Ruth C.	(XM)	Winnipeg
Bretz, Madeline	(U)	Winnipeg
Bright, James E.	(U)	Winnipeg
Brodie, Harold J.	(U)	Winnipeg
Brook, Elsie E.	(U)	Winnipeg
Brown, Maude M.	(U)	Transcona, Man.
Brown, Maurice	(U)	Winnipeg
Brownlee, William H.	(U)	Crystal City, Man.
Bruser, Freda	(U)	Humboldt, Sask.
Buchanan, Edith A.	(U)	Winnipeg
Cameron, Anna B.	(U)	Oak Lake, Man.
Cameron, Florence I.	(W U)	Winnipeg

<i>Name</i>	<i>College</i>	<i>Address</i>
Cameron, Jean M.	(U)	Winnipeg
Campbell, Jean I.	(XM)	Stonewall, Man.
Card, Byron S.	(XM)	Portage la Prairie, Man.
Card, Mary	(W)	Winnipeg
Carey, Jean	(XM)	Winnipeg
Carlyle, William	(U)	Winnipeg
Carruthers, William G.	(U)	Winnipeg
Charlewood, Geoffrey R.	(U)	Winnipeg
Chmelnitsky, Goldie	(U)	Winnipeg
Christie, Fred W.	(U)	Winnipeg
Churchill, Adele	(U)	Winnipeg
Clark, Cleo	(U)	Winnipeg
Clarke, Frances J.	(U)	Winnipeg
Cohen, Eleanor	(U)	Canora, Sask.
Colquhoun, Frederick R.	(U)	Winnipeg
Conway, Clifford B.	(U)	Winnipeg
Coombes, Mary L.	(U)	Winnipeg
Corne, Mollie S.	(U)	Winnipeg
Cossoy, Bertha	(XM)	Winnipeg
Coulter, Phyllis N.	(U)	Winnipeg
Crawford, Mary M.	(XM)	Winnipeg
Cullen, Annie J.	(U)	Kelliher, Sask.
Daien, Nora	(U)	Pine Ridge, Man.
Daoust, Lucien	(St. B)	St. Boniface, Man.
Davis, Helen M.	(U)	Emerson, Man.
Denoon, Ethel L.	(W U)	Birnie, Man.
Diner, Clara	(U)	Winnipeg
Dingle, Harry D.	(U)	Winnipeg
Doland, Arthur H.	(U)	Winnipeg
Donald, Ross L.	(U)	Winnipeg
Dunlop, Joseph J.	(St. J XM)	Calgary, Alta.
Eaves, Mary R.	(XM)	St. Ouens, Man.
Elkin, Eugene	(U)	Winnipeg
Elkin, Lewis A.	(St. J U)	Winnipeg
Elliott, Hazel I.	(W U)	Mather, Man.
Evans, Robert S.	(U)	Winnipeg
Feldman, Israel	(U)	Winnipeg
Fennell, William L.	(U)	Canora, Sask.
Finegood, Max	(XM U)	Winnipeg
Finkel, Gertrude	(U)	Winnipeg
Fishman, Dave	(U)	Winnipeg
Fletcher, R. Vernon	(U)	Winnipeg
Forbes, Clara J.	(W U)	Waskada, Man.
Forsythe, Edna M.	(W U)	High Bluff, Man.
Forsythe, Jean	(W U)	High Bluff, Man.
Foster, John D.	(U)	Winnipeg
Freedman, Samuel	(U)	Winnipeg
Gamey, Eileen A.	(W)	Newdale, Man.
Gareau, Romeo	(St. B)	St. Léon, Man.
Garbutt, Theodor R.	(U)	Crystal City, Man.
Gillen, Patrick J.	(U)	Winnipeg
Gislason, Ragnar	(XM)	Winnipeg
Gonty, Arthur	(St. B)	Bellevue, Man.
Gonty, Joseph	(St. B)	Bellevue, Man.
Goodeve, Edward A.	(U)	Winnipeg
Goodman, Margaret S.	(U)	Selkirk, Man.

<i>Name</i>	<i>College</i>	<i>Address</i>
Gosman, Coral M.	(XM)	Portage la Prairie, Man.
Goswell, Maggie M.	(W)	Winnipeg
Grassby, Gerald M.	(U)	Winnipeg
Greenberg, Ethel	(U)	Gimli, Man.
Greenlaw, James W.	(W U)	Crocus, Man.
Greenlay, Eva E.	(XM)	Portage la Prairie, Man.
Greenway, Marjorie F.	(U)	Crystal City, Man.
Griffin, Harold J.	(XM)	Portage la Prairie, Man.
Griffith, James S.	(U)	Winnipeg
Griggs, Willa A.	(W U)	Griswold, Man.
Grover, Grace H.	(U)	Winnipeg
Gussin, Manya	(U)	Winnipeg
Guthrie, John A.	(U)	Winnipeg
Haas, Anton	(U)	Winnipeg
Hall, Patrick	(U)	Winnipeg
Hamilton, Muriel	(U)	Winnipeg
Hayman, Ben	(U)	Winnipeg
Hayman, Julius	(U)	Winnipeg
Head, E. Isobelle	(U)	Winnipeg
Helyar, Charles M.	(U)	Winnipeg
Henderson, Frieda C.	(U)	Winnipeg
Higley, Teresa I.	(U)	Winnipeg
Hinchliffe, May	(U)	Winnipeg
Hollenberg, Bessie	(U)	Winnipeg
Holmes, Joseph W.	(XM)	Winnipeg
Hough, Douglas M.	(XM)	Birtle, Man.
Hough, Harold E.	(U)	Winnipeg
Irwin, Corinne K.	(U)	Winnipeg
Isaacs, Rose	(U)	Winnipeg
Jex, Robert L.	(St. J U)	Winnipeg
Johnson, Gunnsteinn G.	(XM U)	Wynyard, Sask.
Johnson, Thorarin V.	(XM)	Minnewakan, Man.
Jones, Daisy M.	(U)	Whitewater, Man.
Kahonovitch, Goldie	(U)	Winnipeg
Katz, Freda	(U)	Winnipeg
Kellett, Richard J.	(W U)	Winnipeg
Kennedy, Evangeline M.	(U)	Winnipeg
Kenner, Marjory E.	(W U)	Winnipeg
Kotlarsky, Erwine	(U)	Winnipeg
Kowalson, Leon	(U)	Winnipeg
Kushner, Hymie N.	(U XM)	Winnipeg
LaFlèche, Armand	(St. B)	St. Boniface, Man.
Laidlaw, Annie M.	(W U)	Winnipeg
Laing, Helen A.	(U)	Winnipeg
Laird, William D.	(U)	Winnipeg
Lambert, Albert	(St. B)	St. Boniface, Man.
Landry, Armand	(St. B)	St. Adolphe, Man.
Lane, Henry	(St. B)	St. Boniface, Man.
Lawson, James T.	(U)	Winnipeg
Leavens, Charles F.	(U)	Winnipeg
Lee, Laura R.	(U)	Winnipeg
LePage, I. Marguerite	(U)	Winnipeg
Levin, David	(U)	Winnipeg
Lezack, Sam	(U)	Winnipeg
Lightcap, Margaret M.	(U)	Winnipeg
Lukey, John A.	(U)	Norquay, Sask.

<i>Name</i>	<i>College</i>	<i>Address</i>
Lutack, Doris A.	(U)	Winnipeg
Lyons, Edith M.	(U)	Winnipeg
Lyons, Joe	(U)	Winnipeg
Lysecki, John E.	(W U)	Elma, Man.
McAllister, John L.	(U)	Winnipeg
McCleary, Olive	(XM)	Portage la Prairie, Man.
McCulloch, Jean C.	(U)	Souris, Man.
McCullough, Alvin P.	(U)	Winnipeg
McGowan, Clarence L.	(U)	Carman, Man.
McGregor, Patricia H.	(U)	Winnipeg
McKeand, Janet W.	(U)	Winnipeg
McKee, Alexander D.	(XM)	Portage la Prairie, Man.
McKenzie, John D.	(U)	Deloraine, Man.
McLarty, George	(XM)	Portage la Prairie, Man.
McLaughlin, Margaret C.	(U)	Winnipeg
McLean, Charles W.	(U)	Winnipeg
McLean, Muriel F.	(U)	Winnipeg
McLeod, Norma E.	(XM)	Winnipeg
McNichol, Nellie E. M.	(U)	Winnipeg
McWee, Jean S.	(W U)	Winnipeg
MacKechnie, John L.	(XM)	Portage la Prairie, Man.
MacKenzie, Glenn I.	(U)	Heward, Sask.
Mackie, Eva M.	(U)	Winnipeg
Mackie, Philip A.	(U)	Winnipeg
Macklin, Lionel S.	(St. J U)	Winnipeg
MacLean, Alexander R.	(U)	Winnipeg
Magid, Bessie	(U)	Winnipeg
Mahon, Emerson S.	(U)	Winnipeg
Marcel, Dugal	(St. B)	St. Boniface, Man.
Markle, Louis H.	(U)	Winnipeg
Marshall, Meryl K.	(U)	Winnipeg
Matchett, Clifford S.	(W)	Treherne, Man.
Matheson, Helen G.	(U)	Winnipeg
Matthews, Joseph L.	(U)	Winnipeg
Medovy, Marion	(U)	Winnipeg
Metcalfe, William H.	(XM)	Portage la Prairie, Man.
Michel, Henry E.	(U)	Winnipeg
Mitchell, Agnes	(U)	Winnipeg
Monteith, Mary M.	(U)	Winnipeg
Montgomery, Helen M.	(U)	Winnipeg
Morganstern, Montague R.	(U)	Winnipeg
Morganstern, Sadie	(U)	Winnipeg
Moss, Margaret C.	(U)	Winnipeg
Muir, Dora	(W U)	High Bluff, Man.
Muirhead, Edythe M.	(U)	Carberry, Man.
Munsie, Mary	(U)	Winnipeg
Murray, Frances Edna	(XM)	Portage la Prairie, Man.
Nemerovsky, William	(St. J U)	Winnipeg
Newman, Mabel M.	(U)	Cartwright, Man.
Newton, Vernice M.	(U)	Roblin, Man.
Nicks, Elizabeth A.	(XM)	Winnipeg
Norell, Alice G.	(U)	Winnipeg
O'Hare, Elva	(U)	Winnipeg
O'Neill, Olive	(W U)	Winnipeg
Orde, Jean D.	(U)	Winnipeg
Orloff, Conrad A.	(U)	Foam Lake, Sask.

<i>Name</i>	<i>College</i>	<i>Address</i>
Ostry, Elizabeth	(U)	Winnipeg
Owens, Marjorie W.	(XM)	Portage la Prairie, Man.
Parent, Norbert	(St. B)	Letellier, Man.
Parrott, Winifred M.	(U)	Saltcoats, Sask.
Pearson, Ina M.	(XM)	Portage la Prairie, Man.
Pelly, Jennie C.	(U)	Winnipeg
Penwarden, Reginald B.	(W U)	Winnipeg
Percy, Reginald	(U)	Winnipeg
Peterson, Harold T. N.	(U)	Winnipeg
Pettypiece, Celia M.	(W U)	Benito, Man.
Phomin, Isaac I.	(U)	Winnipeg
Pickersgill, Thomas Bruce	(XM)	Ashern, Man.
Poole, Edith M.	(U)	Neepawa, Man.
Posner, Samuel	(U)	Winnipeg
Potasky, Joseph H.	(U)	Winnipeg
Poulter, Louisa P.	(U)	Winnipeg
Preston, Irma M.	(U)	Varsity View P.O., Man.
Price, Archie M.	(U)	Deloraine, Man.
Quanstrom, Caroline A.	(U)	Carnduff, Sask.
Rabinovitch, Ruby L.	(U)	Morden, Man.
Richardson, John	(XM)	West Kildonan, Man.
Richmond, Samuel L.	(U)	Winnipeg
Riddell, Dorothy G.	(XM)	Portage la Prairie, Man.
Ritchie, Muriel	(U)	Winnipeg
Ritz, Lorene F.	(U)	Winnipeg
Robinson, Hazel A.	(U)	Green Ridge, Man.
Roe, Lillian	(XM)	Portage la Prairie, Man.
Romalis, Reuben	(U)	Winnipeg
Romanick, Mary A. E.	(U)	Winnipeg
Rombough, Julia E.	(U)	Wawanesa, Man.
Rosenberg, Ben	(XM)	Winnipeg
Rossen, Fannie	(U)	Winnipeg
Rowan, Annie E.	(U)	Miniota, Man.
Sabourin, Joseph	(St. B)	St. Jean Baptiste, Man.
Salamon, Michael	(St. B)	Libret, Sask.
Satten, Sylvia	(U)	Winnipeg
Scardina, Joseph	(U)	Transcona, Man.
Scott, Horace M.	(U)	Winnipeg
Sharp, Jean M.	(U)	Winnipeg
Shaw, Olive W.	(U)	Winnipeg
Shepherd, Frank D.	(U)	Winnipeg
Shpeller, Sam I.	(U)	Winnipeg
Shuckett, Nathan	(U)	Winnipeg
Shulman, Rose	(U)	Winnipeg
Sigurdson, Bjorn T.	(XM)	Churchbridge, Sask.
Sinaisky, Eva	(U)	Winnipeg
Singer, Grace L.	(U)	Winnipeg
Slater, Ella W.	(U)	Winnipeg
Smith, Amy	(U)	Winnipeg
Smith, Clarence H.	(St. J)	Winnipeg
Smith, Henry	(U)	Winnipeg
Smith, Lorin A. C.	(St. J)	Winnipeg
Smith, Winnifred H.	(U)	Winnipeg
Solsted, Harold M.	(U)	Winnipeg
Somerville, Edith A.	(W U)	Hartney, Man.
Souter, Agnes J.	(XM)	Portage la Prairie, Man.

<i>Name</i>	<i>College</i>	<i>Address</i>
Spencer, Kenneth E.....	(St. J U).....	Winnipeg
Steinman, Mitchell.....	(U).....	Winnipeg
Steuart, Dorothy H.....	(U).....	Brandon, Man.
Steuart, Marie.....	(U).....	Brandon, Man.
Stewart, Jenny R.....	(U).....	Winnipeg
Sucharov, Moses.....	(U).....	Transcona, Man.
Sutherland, Helen C.....	(XM).....	Winnipeg
Sweet, Thomas E.....	(U).....	Keewatin, Ont.
Switallo, Peter J.....	(St. B).....	Winnipeg
Tallin, Clive K.....	(U).....	Winnipeg
Taslitsky, Rose.....	(U).....	Winnipeg
Taylor, Ernest D.....	(St. J).....	Winnipeg
Taylor, John A.....	(U).....	Winnipeg
Terry, Ruby F.....	(U).....	Roblin, Man.
Teskey, Maurice F.....	(U).....	Winnipeg
Thomas, John B.....	(St. J).....	Winnipeg
Thomas, William N.....	(U).....	Transcona, Man.
Thompson, Edith M.....	(W).....	Souris, Man.
Trueman, Kenneth.....	(U).....	Winnipeg
Tully, John P.....	(U).....	Winnipeg
Tweedie, Audrey S.....	(U).....	Winnipeg
Udall, Una W.....	(U).....	Boissevain, Man.
Vanstone, Kathleen J.....	(U).....	Wawanesa, Man.
Vryonhoek, Jane.....	(W U).....	Winnipeg
Wade, Margaret M.....	(U).....	Winnipeg
Walker, Walter H. W.....	(St. J U).....	Clandeboye, Man.
Wallace, Alice R.....	(U).....	Emerson, Man.
Wallace, Elva L.....	(U).....	Cartwright, Man.
Wallace, Janet I.....	(U).....	Emerson, Man.
Wallace, John G.....	(U).....	Winnipeg
Walton, Irene (deceased).....	(U).....	Winnipeg
Wark, Jennie M.....	(W U).....	Minto, Man.
Watts, Norma E.....	(U).....	Winnipeg
Whimster, Margaret F.....	(U).....	Hamiota, Man.
Willmot, May.....	(U).....	Brookdale, Man.
Wilson, Hazel W.....	(U).....	Winnipeg
Wilton, Marguerite J.....	(W U).....	High Bluff, Man.
Young, David.....	(U).....	Winnipeg
Zanphir, Peter.....	(U).....	Winnipeg
Zaslow, Lillian R.....	(XM).....	Winnipeg

ARTS AND SCIENCE

First Year—Group I—Special Students

<i>Name</i>	<i>College</i>	<i>Address</i>
Aikenhead, John D.....	(X M).....	Winnipeg
Anderson, Gladys V.....	(X M).....	Winnipeg
Armstrong, Edward A.....	(U).....	Winnipeg
Atchison, William S.....	(U).....	Winnipeg
Bell, Dorothy.....	(U).....	Winnipeg
Bell, Herbert M.....	(X M).....	Minnedosa, Man.
Birchard, (Mrs.) Mary.....	(U).....	Winnipeg
Burch, Catherine E.....	(U).....	Winnipeg
Burgess, Harold C.....	(U).....	Winnipeg
Campbell, Colin H.....	(U).....	Winnipeg
Campbell, Jean I.....	(U XM).....	Stonewall, Man.

<i>Name</i>	<i>College</i>	<i>Address</i>
Carson, Annie D.....	(U).....	Winnipeg
Cartwright, Mary deC.....	(U).....	Milton West, Ont.
Chase, Florence Evelyn.....	(XM).....	Dauphin, Man.
Cohen, Sadye P.....	(U).....	Winnipeg
Crummy, Margaret E.....	(U).....	Winnipeg
Dennison, William H.....	(U).....	Newdale, Man.
Dubitsky, Moses.....	(U).....	Montreal, Que.
Eaves, Mary R.....	(XM).....	Winnipeg
Faurer, Charlotte.....	(U).....	Winnipeg
Finkel, Joseph A.....	(XM).....	Winnipeg
Gordon, Helen R.....	(XM).....	Portage la Prairie, Man.
Grassby, Louise.....	(U).....	Winnipeg
Greene, Harry.....	(XM).....	Winnipeg
Henson, Ivy P.....	(XM).....	Winnipeg
Jickling, James G.....	(XM).....	Winnipeg
Kennedy, John M.....	(XM).....	Oak River, Man.
Lang, Dorothy M.....	(XM).....	Winnipeg
Lee, Audrey M.....	(U).....	Winnipeg
Lillis, Emmie M.....	(U).....	Broadview, Sask.
McArthur, Kathleen W.....	(W U).....	Regina, Sask.
McBain, Clark W.....	(U).....	Winnipeg
McDermid, James.....	(U).....	Duntroon, Ont.
McKillop, Mary.....	(XM).....	Portage la Prairie, Man.
McLenaghan, Nathaniel B.....	(U).....	Portage la Prairie, Man.
McQueen, Elizabeth M.....	(U).....	Winnipeg
MacKenzie, Kathryn.....	(U).....	Winnipeg
MacLennan, David A.....	(U).....	Winnipeg
MacLeod, Helen.....	(U).....	Stonewall, Man.
Magrath, Sidney A.....	(U).....	Calgary, Alta.
Melnyk, Teresa N.....	(U).....	Winnipeg
Miller, Beatrice I.....	(U).....	Winnipeg
Munroe, Norman A.....	(St. J).....	Winnipeg
Pickles, Audrey.....	(W).....	Winnipeg
Richardson, John.....	(XM).....	Winnipeg
Roberts, John.....	(U).....	Winnipeg
Roscoe, Bruno.....	(U).....	Winnipeg
Roscoe, John.....	(U).....	Winnipeg
Rosenberg, Jehiel.....	(U XM).....	Montreal, Que.
Ross, Marion B.....	(XM).....	Morris, Man.
Royle, Elsie I.....	(W).....	Foam Lake, Sask.
Scott, Joseph M.....	(XM).....	Portage la Prairie, Man.
Sheppard, Ruth I.....	(W U).....	Abernethy, Sask.
Smith, Olive I.....	(XM).....	Portage la Prairie, Man.
Spence, Erma M.....	(W U).....	Green Ridge, Man.
Spence, M. Kathleen.....	(U).....	Winnipeg
Stevenson, Dorothy S.....	(W).....	Morris, Man.
Stockhammer, Ada.....	(U).....	Winnipeg
Taylor, Ellen F., M.D.....	(XM).....	Winnipeg
Taylor, Geraldine B.....	(U).....	Winnipeg
Umphrey, Gladys J.....	(W).....	Arcola, Sask.
Waldman, Isaac.....	(St. J).....	Melville, Sask.
Webb, Gwendolyne M.....	(U).....	Winnipeg
Westgate, W. Maureen.....	(U).....	Winnipeg
Williams, Edward S.....	(St. J U).....	Winnipeg
Woodsworth, Mary J.....	(XM).....	Winnipeg

ARTS AND SCIENCE

First Year—Group II

<i>Name</i>	<i>College</i>	<i>Address</i>
Adilman, Eddie.....	(U).....	Winnipeg
Andreas, Jake.....	(U).....	Winnipeg
Austin, Winston E.....	(U).....	Warroad, Minn.
Beckman, Barney D.....	(U).....	Winnipeg
Bibaud, Louis P.....	(U).....	Winnipeg
Biglow, Clifford W.....	(U).....	Holland, Man.
Bloom, William.....	(U).....	Selkirk, Man.
Bowden, Nicholas.....	(U).....	Winnipeg
Boxer, Louis.....	(U).....	Winnipeg
Boyd, Sam A.....	(U).....	Winnipeg
Brown, Wesley A.....	(W U).....	Winnipeg
Bulloch, Charles N.....	(U XM).....	Winnipeg
Chapple, Harry M.....	(U).....	Shoal Lake, Man.
Christie, Robert S.....	(U).....	Winnipeg
Claman, Bennie.....	(U).....	Winnipeg
Cruise, John T.....	(U).....	Dauphin, Man.
Davis, Lloyd.....	(U).....	Winnipeg
Duncan, Allan C.....	(U).....	Winnipeg
Fox, Stanley.....	(U).....	Balmoral, Man.
Galsky, Harry.....	(U).....	Winnipeg
Gillespie, Roy W.....	(U).....	Guntton, Man.
Hamlin, George H.....	(St. J U).....	Winnipeg
Hitesman, Robert J.....	(W U).....	Winnipeg
Hossack, Dan.....	(U).....	Winnipeg
Hunka, George.....	(U).....	Winnipeg
Hunter, Robert A.....	(U).....	Calgary, Alta.
Ingimundson, August B.....	(U).....	Winnipeg
Jobin, Arthur.....	(U).....	Winnipeg
Johnson, Albert W.....	(U).....	Winnipeg
Juno, Frank A.....	(U).....	Torquay, Sask.
Krupka, Edward.....	(U).....	Winnipeg
Law, George.....	(W U).....	Winnipeg
Leaman, John.....	(XM).....	Portage la Prairie, Man.
Levi, Iser.....	(U).....	Winnipeg
Ludwick, Ernie.....	(U).....	Winnipeg
Lyons, Benjamin.....	(U).....	Tisdale, Sask.
McKee, Frederick W.....	(W U).....	Stonewall, Man.
McKenty, Vincent.....	(U).....	Winnipeg
McLaughlin, Hugh R.....	(U).....	Winnipeg
McQuarrie, J. Norman.....	(W U).....	Rainy River, Ont.
Mackey, Lawrence R.....	(U).....	Winnipeg
Marsh, John J.....	(U).....	Winnipeg
Matthiason, Matthias J.....	(U).....	Gardar, N.D.
Mayo, Joseph L.....	(U).....	Brandon, Man.
Negrych, Alexander.....	(U).....	Winnipeg
Neville, Percy W.....	(U).....	Rivers, Man.
Newstone, Jack.....	(U).....	Winnipeg
Nimilowich, Philip.....	(U).....	Winnipeg
Pearl, David.....	(U).....	Winnipeg
Porth, Frank J.....	(U).....	Winnipeg
Portigal, Samuel L.....	(U).....	Leader, Sask.
Raber, Ben-Zion.....	(U).....	Melville, Sask.
Sanden, John.....	(U).....	Winnipeg

<i>Name</i>	<i>College</i>	<i>Address</i>
Sedziak, Zygmunt.....	(U).....	Winnipeg
Share, Samuel O.....	(U).....	Winnipeg
Sinclair, Alexander.....	(U).....	Moose Jaw, Sask.
Slater, Scott.....	(U).....	Winnipeg
Spencer, Earl W.....	(U).....	Regina, Sask.
Stephens, Gordon M.....	(U).....	Winnipeg
Sturlaugson, Stefan J.....	(U XM).....	Leslie, Sask.
Thom, Archibald J.....	(U).....	Russell, Man.
Thorwaldson, Elvin.....	(U).....	Mountain, N.D.
Valentine, W. Reginald.....	(U).....	Winnipeg
Van Alstyne, Ellwood S.....	(U).....	Winnipeg
Weller, Bert.....	(U).....	Winnipeg
Whetter, Reginald W.....	(W U).....	Dand, Man.
Wiglesworth, Frederic W.....	(U).....	Armstrong, B.C.
Willson, Sherman G.....	(U).....	Winnipeg
Winram, Marshall W.....	(U).....	Winnipeg
Yankovsky, Louis.....	(U).....	Winnipeg

ARTS AND SCIENCE

First Year—Group II—Special

<i>Name</i>	<i>College</i>	<i>Address</i>
Arkin, Abram.....	(U).....	Winnipeg
Bickford, Arthur.....	(U).....	Benito, Man.
Bigelow, Horace M.....	(XM).....	Brandon, Man.
Botterell, Harry.....	(U).....	Winnipeg
Burn, Victor E.....	(XM).....	Rodney, Ont.
Clark, Cecil W.....	(XM).....	Portage la Prairie, Man.
Cohen, Lawrie.....	(U).....	Winnipeg
Cosgrave, Gerald P.....	(U).....	Winnipeg
Fargey, Maurice R.....	(U).....	La Riviere, Man.
Gendreau, Lionel.....	(U).....	St. Norbert, Man.
Goresky, Victor.....	(U).....	Stonewall, Man.
Hossack, Robert.....	(U).....	Winnipeg
Konkin, Alexander D.....	(U).....	Kamsack, Sask.
Lobb, Roy B.....	(XM).....	Portage la Prairie, Man.
Long, Harold.....	(U).....	Winnipeg
Lyons, Ruvin.....	(U).....	Winnipeg
McLean, Lawrence A.....	(W U).....	Hamiota, Man.
Wardell, Harold G.....	(U).....	Winnipeg

ARTS AND SCIENCE

First Year—Group III

<i>Name</i>	<i>College</i>	<i>Address</i>
Adamowski, Norman J.....	(U).....	Winnipeg
Adamson, Lawrence M.....	(W U).....	Newdale, Man.
Armstrong, Charles G.....	(U).....	Winnipeg
Bannerman, Otto H.....	(U).....	Winnipeg
Baudru, René C.....	(U).....	St. Boniface, Man.
Berry, Melville D.....	(U).....	Winnipeg
Bjarnason, Otto H.....	(U XM).....	Winnipeg

<i>Name</i>	<i>College</i>	<i>Address</i>
Blanchard, Allan F.	(U)	Garson Quarry, Man.
Borowski, Michael J.	(U)	Fork River, Man.
Bradley, Harry B.	(U)	Winnipeg
Brown, Robert M.	(U)	Transcona, Man.
Burrows, Walter S.	(U)	Winnipeg
Cook, Leonard L.	(U)	Winnipeg
Coulter, George E.	(U)	Winnipeg
Dagg, Frank A.	(U)	Holland, Man.
Dobush, Peter	(U)	Winnipeg
Elmhirst, Aubrey D.	(U)	Carberry, Man.
English, Edgar S.	(U)	Winnipeg
Fatsock, Michael	(U)	Winnipeg
Fenton, Thomas C.	(U)	Winnipeg
Ferguson, John H.	(U)	Winnipeg
Fink, Norris	(U)	Winnipeg
Finnigan, Norman O.	(U)	Ste. Anne, Man.
Gay, Ronald	(U)	Winnipeg
Goode, Frank E.	(U)	Edmonton, Alta.
Hardy, Robert M.	(U)	Winnipeg
Hartney, James R.	(U)	Winnipeg
Heather, Allison F. J.	(U)	Winnipeg
Higley, Harry	(U)	Winnipeg
Hjaltalin, Paul C.	(U)	Winnipeg
Holm, Thor	(U XM)	Pacific Jct. P.O., Man.
Hoogstraten, Jack	(U)	Winnipeg
Johannsson, Magnus	(U XM)	Winnipeg
Kennedy, Harry M.	(U)	Winnipeg
Larner, Claude W.	(U)	Winnipeg
Lawrence, John B.	(U)	Winnipeg
Logan, William T.	(U)	Winnipeg
Lyons, John M.	(U)	Carberry, Man.
Lytle, Robert	(U)	Winnipeg
McCormick, Archibald T.	(U)	Transcona, Man.
McDonald, Charles K. A.	(U)	Winnipeg
McDougall, Roderick L.	(U)	Winnipeg
McKee, Robert A.	(W U)	Stonewall, Man.
McKeown, Samuel S.	(St. J. U)	Winnipeg
McLean, Russell J.	(U)	Winnipeg
McLeod, Robert M.	(U)	Winnipeg
McMurray, Gerald H.	(W U)	Winnipeg
Millman, Hartley T.	(U)	Winnipeg
Murden, Francis J.	(U)	Winnipeg
Oddlafson, Edward W.	(U)	Winnipeg
Patriarche, Valance H.	(U)	Winnipeg
Paulsen, Rudolph	(W U)	Erickson, Man.
Paulson, Orrin	(U)	Winnipeg
Poulin, Remi	(U)	Winnipeg
Rattray, Burnett E.	(U)	Winnipeg
Reid, David W.	(U)	Winnipeg
Robinson, John E.	(U)	Winnipeg
Ross, David S. G.	(U)	Winnipeg
Rychliwski, Julius	(U)	Winnipeg
Severson, James R.	(U)	Winnipeg
Sheps, Philip	(U)	Winnipeg
Solmundson, Granz J.	(U)	Gimli, Man.
Stevenson, Leonard M.	(W U)	Boissevain, Man.

<i>Name</i>	<i>College</i>	<i>Address</i>
Striowski, John B.....	(U).....	Winnipeg
Taylor, Andrew.....	(U).....	Winnipeg
Taylor, William C.....	(U).....	Winnipeg
Toporeck, Edward R.....	(U).....	Winnipeg
Vrooman, Charles R.....	(U).....	Manitou, Man.
Wasilina, Harry.....	(U).....	Winnipeg
Weselak, Edward J.....	(U).....	Winnipeg
Williams, Stanley.....	(U).....	Winnipeg
Williamson, Guy V.....	(St. J. U.).....	The Pas, Man.
Willows, Fred.....	(U).....	Winnipeg
Willson, Walter S.....	(U).....	Stonewall, Man.
Woodman, Edward G.....	(U).....	Winnipeg
Woyna, Victor.....	(U).....	Winnipeg

ARTS AND SCIENCE

First Year—Group III—Special Students

<i>Name</i>	<i>College</i>	<i>Address</i>
Adamson, Wilfrid G.....	(U).....	Newdale, Man.
Aitkens, John C.....	(U).....	Boissevain, Man.
Brown, Ralph.....	(U).....	Winnipeg
Burgess, Harold C.....	(U).....	Victoria, B.C.
Dickson, Neil W.....	(U).....	Manitou, Man.
Graham, James D.....	(U).....	Winnipeg
Johnson, Alexander A.....	(U).....	Winnipeg
McTavish, Neil.....	(XM).....	Basswood, Man.
Nelson, Hilding.....	(U).....	Winnipeg
Spackman, Thomas F.....	(XM).....	Ninette, Man.
Sparrow, Charles W.....	(U).....	Moose Jaw, Sask.
Wong, S. Yick.....	(U).....	Winnipeg

ARTS AND SCIENCE

Second Year—Group I

<i>Name</i>	<i>College</i>	<i>Address</i>
Abrahamson, Isaac.....	(U).....	Winnipeg
Aldridge, Florence R.....	(U).....	Winnipeg
Anderson, Hazel E.....	(U W).....	Wawanesa, Man.
Anderson, Helena.....	(XM).....	Winnipeg
Anderson, William G.....	(U).....	Dubuc, Sask.
Andrews, Mary F.....	(U).....	Winnipeg
Armstrong, Francis W.....	(U XM).....	Melita, Man.
Arnett, Doris A.....	(W).....	Winnipeg
Arenowsky, Marvin.....	(U).....	Winnipeg
Atkinson, Constance E.....	(U).....	Winnipeg
Avery, Margaret A. M.....	(XM).....	Winnipeg
Barnes, Morris.....	(U).....	Winnipeg
Beecher, Robert E.....	(U).....	Roblin, Man.
Belton, Alice M.....	(XM).....	Beausejour, Man.
Bennett, Eunice H.....	(XM).....	Virden, Man.

<i>Name</i>	<i>College</i>	<i>Address</i>
Berezovsky, Pauline	(U)	Buchanan, Sask.
Bérubé, Marie-Jeanne	(XM)	St. Boniface, Man.
Billinkoff, Frank	(U)	Winnipeg
Bjornson, Heidmar B.	(U W)	Vidir P.O. Man.
Black, Donald	(XM)	Winnipeg
Bonon, Marius	(St. B.)	St. Norbert, Man.
Bonnar, Jean	(U)	Winnipeg
Bonnycastle, Lawrence C.	(U)	Dauphin, Man.
Borland, Lloyd S.	(U W)	Crandall, Man.
Bowman, Allan S.	(XM)	Waskada, Man.
Bowman, Max	(U)	Winnipeg
Boyd, Wilbur G.	(U)	Winnipeg
Brereton, Margaret	(U)	Winnipeg
Bridgman, Marion E.	(U)	Winnipeg
Brooks, Cyril W.	(U)	Winnipeg
Bruser, Freda	(U M)	Humboldt, Sask.
Bulloch, Lois M.	(U W)	Winnipeg
Bryan, Samuel S.	(XM)	Rapid City, Man.
Campbell, Donnie L.	(U)	Stonewall, Man.
Campbell, Enid M.	(U)	Winnipeg
Campbell, Ruth A.	(U)	Winnipeg
Cann, Grace M.	(U W)	Winnipeg
Carson, Lyle J.	(U)	Winnipeg
Carstens, Kaethe M. D.	(U)	Winnipeg
Carver, Alice E.	(W)	Winnipeg
Chapple, James W.	(XM)	Shoal Lake, Man.
Chase, R. Darwin	(XM)	Dauphin, Man.
Chislett, Florence L.	(U)	Winnipeg
Clarke, John W.	(XM)	Brandon, Man.
Clement, Carlton W.	(U)	Winnipeg
Coad, Verna L.	(U W)	Eden, Man.
Cochrane, Edith M.	(XM)	Winnipeg
Cochrane, Robert J.	(XM)	Winnipeg
Coke, Beryl E. M.	(U)	Winnipeg
Coleman, Gladys J.	(W)	Souris, Man.
Collison, Eleanor	(XM)	Winnipeg
Conway, Myrtle R.	(U)	Winnipeg
Cook, Elisabeth G.	(XM)	Portage la Prairie, Man.
Coppinger, Mabel A.	(XM)	Winnipeg
Corbett, Maurice W.	(XM)	E. Kildonan, Man.
Corrigan, Genevieve L.	(U)	Lampman, Sask.
Costello, John G.	(St. B.)	Winnipeg
Couch, Carlyle S.	(XM)	Rivers, Man.
Courtice, Marion J.	(U)	Winnipeg
Coutts, Georgine L.	(XM)	Winnipeg
Crook, Olive M.	(U)	Winnipeg
Cruikshank, Vida	(U)	Winnipeg
Culbertson, Mary G.	(U)	Winnipeg
Currie, Charles E.	(XM)	Brandon, Man.
Danziger, Leo	(U)	Winnipeg
Davies, Vivian L.	(XM)	Winnipeg
Davis, Fanny M.	(W)	Winnipeg
DeGagné, Joseph A. G.	(St. B.)	La Salle, Man.
Dolmage, Edward R.	(U W)	Winnipeg
Dorfman, Isadore	(U)	Winnipeg
Dorward, William T.	(U)	Miniota

<i>Name</i>	<i>College</i>	<i>Address</i>
Doupe, Mary S.....	(U).....	Winnipeg
Dougall, Agnes B.....	(XM).....	Winnipeg
Druckman, Leah.....	(XM).....	Winnipeg
Druckman, Sidney.....	(XM).....	Winnipeg
Duncan, Janet A.....	(U).....	Winnipeg
Eaves, Mary R.....	(XM).....	Winnipeg
Evans, Edward G.....	(U).....	Winnipeg
Evans, Evelyn M.....	(U).....	Winnipeg
Fallis, Ella M.....	(U).....	Winnipeg
Faulkner, Hazel M.....	(U W).....	Winnipeg
Fawcett, Allan G.....	(U).....	Winnipeg
Filkow, Annie.....	(U).....	Winnipeg
Fisher, Adelaide V. J.....	(U W).....	Winnipeg
Forke, Mary G.....	(U).....	Pipestone, Man.
Forrest, Mary H.....	(W).....	Souris, Man.
Frank, Enid C.....	(W).....	Port Arthur, Ont.
Fraser, William.....	(U).....	Winnipeg
Freedman, Fred A.....	(U).....	Winnipeg
Fullerton, Dorothy E.....	(U).....	Winnipeg
Galpen, Myer.....	(XM).....	Winnipeg
Gauthier, Elizabeth.....	(XM).....	Winnipeg
Geller, Philip.....	(U).....	Winnipeg
Genik, Stephen.....	(XM).....	Dauphin, Man.
Gervais, Sylvestre H.....	(St. B).....	St. Boniface, Man.
Gibbons, Lillian.....	(U).....	Winnipeg
Gibson, Lillian A.....	(U).....	Winnipeg
Glasgow, Frank L.....	(U).....	Winnipeg
Goff, Dorothy H.....	(U).....	R.R. No. 1, Winnipeg
Gofton, Eileen.....	(XM).....	Dauphin, Man.
Goltzman, Harry.....	(U).....	Winnipeg
Gordon, Lois.....	(U).....	Winnipeg
Goulet, Bernard.....	(St. B).....	St. Boniface, Man.
Gourley, Byron.....	(U).....	Winnipeg
Gowler, James H.....	(U).....	Winnipeg
Green, Richard G.....	(XM).....	Winnipeg
Greenberg, Ada E.....	(U).....	Gimli, Man.
Griffith, Margaret.....	(U).....	Winnipeg
Hadcock, Elizabeth I.....	(U).....	Winnipeg
Hamilton, Helen M.....	(U).....	Winnipeg
Hamilton, Martha E.....	(XM).....	Ochre River, Man.
Hamilton, Ralph D.....	(XM).....	Portage la Prairie, Man.
Handford, Harvey E.....	(U).....	Winnipeg
Hardy, Vivian C.....	(XM).....	Winnipeg
Harvey, Margaret E.....	(U).....	Winnipeg
Haryett, Reta M.....	(XM).....	Maryfield, Sask.
Hawthorne, Florence E.....	(U).....	Miniota, Man.
Hayman, Pearl.....	(U).....	Winnipeg
Heap, William C.....	(U St. J).....	Winnipeg
Henson, Ivy P.....	(XM).....	Winnipeg
Heuchert, Karl H.....	(U).....	Winnipeg
Hewer, Helen M.....	(U).....	Winnipeg
Hewitt, Margaret B.....	(U).....	Melita, Man.
Higgins, T. Kenneth.....	(U).....	Winnipeg
Hodnett, Hazel I.....	(U).....	Miniota, Man.
Hoeschen, John C.....	(St. B).....	Saskatoon, Sask.
Hogan, Norah.....	(U).....	Winnipeg

<i>Name</i>	<i>College</i>	<i>Address</i>
Hollands, Nona.....	(U)	Winnipeg
Hopkins, Lyle D.....	(U W)	Hartney, Man.
Hopper, Lillian M.....	(U W)	Arcola, Sask.
Houde, Marie E.....	(XM)	La Broquerie, Man.
Hudson, George M. A.....	(XM)	Winnipeg
Hummicki, Vincent.....	(U)	Winnipeg
Ingram, Flora E.....	(XM)	Winnipeg
Ison, Francis J.....	(St. J.)	Winnipeg
Ives, Gerda A.....	(U)	Winnipeg
James, Hilda E.....	(U)	Winnipeg
Jasmin, Albina J.....	(XM)	St. Boniface, Man.
Jickling, James G.....	(XM)	Morden, Man.
Johannsson, Thelma J.....	(XM)	Winnipeg
Johnson, Cecil F.....	(U)	Winnipeg
Kahanovitch, Nellie.....	(U)	Winnipeg
Kanchier, Michael.....	(U)	Winnipeg
Kasler, Moses M.....	(U)	Fort William, Ont.
Keith, Louise R.....	(U)	Winnipeg
Kenner, Naomi L.....	(U W)	Winnipeg
Kiffic, Peter.....	(U)	Winnipeg
Klassen, Elizabeth.....	(U)	Gretna, Man.
Knott, Leonard L.....	(U)	Winnipeg
Kostiuk, Walter A.....	(XM)	Poplarfield, Man.
Kramer, Gerald L.....	(St. B)	Winnipeg
Lambert, Jules D.....	(St. B)	Lauder, Man.
Langville, Paul C.....	(XM)	Burnside, Man.
Larsen, Murray N.....	(U)	Winnipeg
Lavoie, Elzear J.....	(St. B)	Montmartre, Sask.
Lavoie, Paul E.....	(St. B)	Norwood, Man.
Ledingham, Margaret C.....	(U W)	Russell, Man.
Lee, Charlotte E.....	(U)	Winnipeg
Lee, Myrtle A.....	(U)	Moosomin, Sask.
Léveillé, Brunelle.....	(St. B)	Winnipeg
Lischinsky, Solomon.....	(U)	Bienfait, Sask.
Loftus, Edwin B.....	(U)	Winnipeg
Longpré, Ernest.....	(St. B)	Qu'Appelle, Sask.
McAskill, Hazel I.....	(U)	Gladstone, Man.
McConochie, Thomas W.....	(U W)	Portage la Prairie, Man.
McDermott, Dorothy.....	(U)	Winnipeg
McDonald, Merle L.....	(U W)	Virten, Man.
McFee, James G.....	(U)	Winnipeg
McKinney, Joseph L.....	(St. J)	Neepawa, Man.
McLean, Gwendolyn.....	(U)	Winnipeg
McLennan, Callum.....	(U W)	La Valley, Ont.
McMillan, Mary K.....	(U)	Winnipeg
McNeil, Marguerite A.....	(U)	Winnipeg
McNeill, Locksley D.....	(U)	Roblin, Man.
McDonald, Leo.....	(St. B)	Winnipeg
Macdonald, Norah M.....	(U)	Brandon, Man.
Macdonell, Gordon T.....	(U)	Winnipeg
MacKay, Florence D.....	(XM)	Portage la Prairie, Man.
Maclean, Annie H.....	(U)	Gladstone, Man.
Macnamara, George B.....	(St. J)	Winnipeg
Magill, Eileen.....	(U)	Winnipeg
Malkin, Elizabeth.....	(U)	Winnipeg
Martin, Lillian F.....	(U)	Winnipeg

<i>Name</i>	<i>College</i>	<i>Address</i>
Menzies, John H.	(W)	Oakburn, Man.
Monkman, Lois A.	(U)	Winnipeg
Monteith, Kathrine M.	(U)	Balcarres, Sask.
Montgomery, Ethel E.	(U)	Winnipeg
Montgomery, James A.	(U W)	Churchbridge, Sask.
Montgomery, Jennie	(U)	Stonewall, Man
Mooney, Madeline A.	(XM)	Winnipeg
Moore, Clarence	(XM)	Winnipeg
Morcombe, Gladys E.	(XM)	Portage la Prairie, Man.
Morison, J. Ensworth	(U W)	Myrtle, Man.
Morris, John W.	(XM)	Boissevain, Man.
Mossman, Grace H.	(U)	Moosomin, Sask.
Moyse, John	(St. J)	Winnipeg
Munsie, Lillian J.	(U)	Winnipeg
Murphy, Harold	(XM)	Winnipeg
Mylus, Ruth	(U)	Winnipeg
Nicholson, Murdo A.	(U)	Ninette, Man.
Ohberg, Martha A.	(W)	Carberry, Man.
Onofreyo, Mary	(XM)	Winnipeg
Parker, Frances R.	(U)	Winnipeg
Parkinson, Caroline	(XM)	Winnipeg
Parsons, Audrey G.	(U W)	Pilot Mound, Man.
Pasikov, Ben H.	(U)	Winnipeg
Paterson, Marion E.	(U)	Winnipeg
Peikoff, Louis A.	(U)	Winnipeg
Petursson, Margret	(U)	Winnipeg
Petursson, Philip M.	(XM)	Winnipeg
Philip, Mary B.	(XM)	Winnipeg
Pidcock, John E.	(XM)	Qu'Appelle, Sask.
Pingle, Georgina	(U)	Winnipeg
Plaxton, Kathleen M.	(U)	Winnipeg
Plottel, Leslie L.	(U)	Winnipeg
Pratt, Frances E.	(U W)	Bengough, Sask.
Ratner, Jack	(U)	Winnipeg
Reycraft, Gladwyn S.	(U)	Winnipeg
Rice, Joseph	(U)	Winnipeg
Rice, Walter	(U)	Winnipeg
Robert, Joseph	(St. B)	Latellier, Man.
Robbins, John E.	(XM)	Darlingford, Man.
Robertson, Daniel M.	(U)	Virden, Man.
Robertson, Ida C.	(XM)	Winnipeg
Rodin, Elizabeth	(U)	Winnipeg
Ross, Muriel M.	(U)	Winnipeg
Scales, Edith L.	(U W)	Virden, Man.
Scott, Juliet J.	(W)	Calgary, Alta.
Segal, Helen D.	(U)	Winnipeg
Shpeller, Max	(U)	Winnipeg
Shreiber, Moses	(U)	Roblin, Man.
Shuckett, B. Arthur	(U)	Winnipeg
Simonson, Carl	(XM)	Lac du Bonnet, Man.
Skidmore, William	(XM)	Ladywood, Man.
Slawson, Charles R.	(XM)	Gilbert Plains, Man.
Sloane, Jessie V.	(U)	Winnipeg
Smith, Hilton S.	(U)	Winnipeg
Smith, William D.	(U)	Winnipeg
Snyder, Mary	(W)	Winnipeg

<i>Name</i>	<i>College</i>	<i>Address</i>
Solleroz, Denys.....	(St. B)	Weyburn, Sask.
Sparling, Winnifred.....	(U W)	Winnipeg
Sproule, Mildred M.....	(U)	Winnipeg
Stevens, Stanley R.....	(St. J)	Winnipeg
Stewart, James R.....	(XM)	Dauphin, Man.
Stinson, Harold M.....	(W)	Stonewall, Man.
Sullivan, Frederick F.....	(U St. J)	Winnipeg
Sutherland, Ethel L.....	(W)	Winnipeg
Sutherland, Henry M.....	(St. J)	Selkirk, Man.
Sutherland, Sanders H.....	(St. J)	Selkirk, Man.
Sweet, John H.....	(U)	Winnipeg
Swinbourne, Dorothy E.....	(XM)	Nee pawa, Man.
Syme, Marion.....	(U)	Winnipeg
Taciuk, Emilia L.....	(U)	Winnipeg
Taylor, William E.....	(U)	Darlingford, Man.
Tessler, Leon I.....	(U)	Winnipeg
Tessler, Thelma B.....	(U)	Winnipeg
Thexton, Annie C.....	(XM)	Selkirk, Man.
Thompson, Marjory.....	(XM)	Oak River, Man.
Thomson, Edith H.....	(U)	Oak Lake, Man.
Thorleifson, Johann O.....	(U W)	Winnipeg
Tod, Genevieve.....	(U)	Winnipeg
Turnbull, David M.....	(U)	Winnipeg
Umphrey, Gladys J.....	(U W)	Arcola, Sask.
Vanstone, Lillie M.....	(XM)	Wawanesa, Man.
Walker, Leah C.....	(U)	Winnipeg
Walkey, May.....	(U)	Winnipeg
Warkentin, Peter W.....	(XM)	Winkler, Man.
Warters, Norah C.....	(U)	Winnipeg
Warwick, Elizabeth E.....	(U)	Winnipeg
Wasserman, Edith D.....	(U)	Winnipeg
Wawrykow, Maxim.....	(U)	Gimli, Man.
Whenham, James C.....	(XM)	Decker, Man.
Wilbraham, Arthur.....	(XM)	Winnipeg
Wild, Frederick C. H.....	(St. J)	Winnipeg
Wiley, Charles W.....	(St. J)	Winnipeg
Wiley, Edwin J.....	(U)	Winnipeg
Williams, Reginald F.....	(U W)	Gladstone, Man.
Wilson, John F.....	(XM)	Dauphin, Man.
Winning, Enid R.....	(XM)	Winnipeg
Wodlinger, David B.....	(U)	Winnipeg
Wood, Rhoda.....	(U)	Winnipeg
Wright, Lewis M.....	(U W)	Stonewall, Man.
Young, Hugh J.....	(U)	Winnipeg
Young, Marion L.....	(U)	Winnipeg
Zaretsky, Ben.....	(XM)	Winnipeg
Zaslow, Eleanor.....	(XM)	Winnipeg

ARTS AND SCIENCE

Second Year—Group I—Special Students

<i>Name</i>	<i>College</i>	<i>Address</i>
Adamson, Wilfrid G.....	(U)	Newdale, Man.
Albright, Harold L.....	(XM)	Manitou, Man.
Beveridge, William R.....	(XM)	Viriden, Man.
Birchard, (Mrs.) Mary.....	(U)	Winnipeg
Burke, Lyna A.....	(XM)	Roblin, Man.

<i>Name</i>	<i>College</i>	<i>Address</i>
Burrett, Frances M.	(U)	Winnipeg
Campbell, Colin H.	(U XM)	Winnipeg
Cavers, David	(U)	Winnipeg
Code, Frances E.	(U)	Winnipeg
Crummy, Margaret E.	(U)	Winnipeg
Dawson, Richard E.	(U)	Winnipeg
Dubitsky, Moses	(U)	Montreal, Que.
Ebborn, Thomas W.	(XM)	Sinclair, Man.
Fahrni (Mrs.), Alice M.	(U)	Winnipeg
Foster, Alfreda	(U XM)	Plumas, Man.
Grant, Catriona	(U)	Winnipeg
Green, Dorothy H.	(XM)	Winnipeg
Greenlaw, James W.	(U)	Crocus, Man.
Grescoe, George H.	(U XM)	Portage la Prairie, Man.
Grundy, Helen P.	(U)	Winnipeg
Harvey, John G.	(U)	Winnipeg
Hinds, Jean L.	(XM)	Winnipeg
Humphries, Olive E.	(U)	Winnipeg
Lang, Dorothy M.	(U)	Winnipeg
Laycock, George R. D.	(XM U)	Winnipeg
Lee, Audrey M.	(U)	Winnipeg
Leslie, Mildred E.	(U)	Winnipeg
Lillis, Emmie M.	(U)	Broadview, Sask.
Longman, Alfred D., B.A.	(XM)	Deloraine, Man.
McArthur, Kathleen W.	(W)	Regina, Sask.
McDermid, James	(U)	Duntroon, Ont.
McDonald, Agnes J.	(XM)	Dauphin, Man.
McNeill, George W.	(U)	Roblin, Man.
Macleod, Donald	(U)	Winnipeg
Magrath, Sidney A.	(U)	Calgary, Alta.
Matheson, H. Grace	(U)	Winnipeg
Miller, Beatrice I.	(U)	Winnipeg
Murdock, John M.	(U)	Edmonton, Alta.
Pace, Evelyn	(U)	Winnipeg
Perry, Gordon J.	(U)	Hartney, Man.
Rosenberg, Jehiel	(U XM)	Montreal, Que.
Russell, Helen J.	(U)	Winnipeg
Ryssen, Florence	(U)	Winnipeg
Simms, M. Ethel	(XM)	Holland, Man.
Sinclair, Jessie V.	(U)	Winnipeg
Sparling, Douglas B.	(W)	Winnipeg
Spence, Erma M.	(W)	Green Ridge, Man.
Stevenson, Dorothy S.	(U)	Morris, Man.
Taylor, Ellen F., M.D.	(U)	Winnipeg
Thorkelson, Karl B.	(U)	Langruth, Sask.
Waldman, Isaac	(St. J)	Melville, Sask.
Walker, John C.	(U)	Kalamazoo, Mich.
Woodsworth, Mary J.	(U XM)	Winnipeg

ARTS AND SCIENCE Second Year—Group II

<i>Name</i>	<i>College</i>	<i>Address</i>
Black, Elinor F. E.	(U)	Winnipeg
Bleeks, Cherry K.	(U)	Winnipeg
Brock, A. Lenore T.	(U)	Winnipeg

<i>Name</i>	<i>College</i>	<i>Address</i>
Brown, Robert C.	(U)	Winnipeg
Cameron, Hugh F.	(U)	Winnipeg
Caminetsky, Leon	(U)	Winnipeg
Chapman, Harry L.	(U)	Winnipeg
Clark, William H.	(U)	Winnipeg
Cook, Norman C.	(U)	Moose Jaw, Sask.
Cope, George W.	(U)	Winnipeg
Cornish, Arthur L.	(U)	Winnipeg
Cram, James B.	(U)	Manitou, Man.
Creasy, Gerald J.	(U)	Portage la Prairie, Man.
Curry, Lorne W.	(U W)	Pilot Mound, Man.
Danzinger, R.	(U)	Winnipeg
Davidson, David A.	(U)	Cartwright, Man.
Drapack, Michael P.	(U)	Winnipeg
Dunlop, William	(U)	Winnipeg
Ewonchuk, Theodore	(U)	Sarto, Man.
Fargey, M. Raymond	(U)	La Riviere, Man.
Fowlie, John A.	(U)	Winnipeg
Gibson, Thomas C. B.	(U)	Winnipeg
Hall, Alvah H.	(U)	Winnipeg
Harvey, Bruce G.	(U)	Winnipeg
Harvey, Stanley W.	(U)	Kamsack, Sask.
Kitchen, Ernest W.	(U)	Souris, Man.
Klass, Abram A.	(U)	Winnipeg
Kolsun, Alexander	(U)	Valley River, Man.
Koshosky, Peter P.	(U)	Dauphin, Man.
Krause, Hazel W.	(U)	Brandon, Man.
Landa, Eastword	(U)	Saskatoon, Sask.
Levine, Maurice E.	(U)	Winnipeg
Little, George A.	(U)	Alexander, Man.
Lyons, Ruvin	(U)	Winnipeg
McMurchy, Argyle	(U)	Arden, Man.
Michalski, Adam	(U)	Winnipeg
Miller, Abram P.	(U)	Winnipeg
Mitkovsky, Vera	(U)	Winnipeg
Moore, Percy E.	(U W)	Rouleau, Sask.
Newman, Gerald A.	(U)	Winnipeg
Parker, Gilbert E.	(U)	Assiniboia, Sask.
Peacock, Kenneth A.	(U)	Moose Jaw, Sask.
Peterson, Frank H.	(U)	Winnipeg
Pitt, Arthur R.	(U W)	Drysdale, Ont.
Rosove, Jack	(U)	Winnipeg
Secter, Max B.	(U)	Winnipeg
Sigurdson, Olof G.	(U)	Framnes, Man.
Smith, Alexander	(U)	Winnipeg
Sproule, John R.	(U W)	Minto, Man.
Taylor, Frank H. A.	(U)	Darlingford, Man.
Temple, Allen D.	(U)	Winnipeg
Thomas, Bruce E.	(U W)	Portage la Prairie, Man.
Thompson, James L.	(U W)	Binscarth, Man.
Wengel, Roman B. W.	(U)	Winnipeg
White, Arthur R. V.	(U)	Winnipeg

ARTS AND SCIENCE

Second Year—Group II—Special Students

<i>Name</i>	<i>College</i>	<i>Address</i>
Arkin, Abram.....	(U).....	Winnipeg
Ball, John R.....	(U).....	Uxbridge, Ont.
Botterell, Harry.....	(U).....	Winnipeg
Freeman, (Mrs.) Charlotte.....	(U).....	Winnipeg
Haywood, Sidney C.....	(U).....	Winnipeg
Konkin, Alexander D.....	(U).....	Kamsack, Sask.
Mulligan, Andrew G.....	(U).....	Winnipeg
Peters, Henry B.....	(U).....	Winnipeg

ARTS

Third Year

<i>Name</i>	<i>College</i>	<i>Address</i>
Abbott, Dorothy L.....	(U).....	Winnipeg
Allen, Lillian B.....	(U).....	Winnipeg
Allison, Carlyle.....	(U).....	Winnipeg
Anderson, Avis W.....	(U W).....	Wawanesa, Man.
Anderson, Helene M.....	(XM).....	Nipawin, Sask.
Archer, William J.....	(U St. J).....	Calgary, Alta.
Argue, Ingle E.....	(U).....	Winnipeg
Arnason, Angantyr.....	(XM).....	Winnipeg
Baldwin, Rachel A. E.....	(XM).....	Winnipeg
Beck, Doris M.....	(U).....	Winnipeg
Bérubé, Marie-Jeanne.....	(XM).....	St. Boniface, Man.
Bilash, Nicholas.....	(XM).....	Dauphin, Man.
Bildfell, John A.....	(U).....	Winnipeg
Black, Edna B.....	(U).....	Springfield, Man.
Bokofsky, Jacob.....	(U XM).....	Theodore, Sask.
Boone, Albert A.....	(XM).....	Winnipeg
Brooking, Mildred M.....	(U).....	Winnipeg
Brownstone, Phyllis T.....	(U).....	Winnipeg
Bruce, Winifred H.....	(U W).....	Swan River, Man.
Burke, Lyna A.....	(XM).....	Roblin, Man.
Buxton, George H.....	(U).....	Deloraine, Man.
Cameron, Florence M.....	(U).....	Holland, Man.
Carson, Christiana E.....	(U).....	Winnipeg
Cartwright, Mary C. de C.....	(U).....	Milton West, Ont.
Cochrane, Edith.....	(XM).....	Winnipeg
Cochrane, R. J.....	(XM).....	Winnipeg
Coleman, Thelma L.....	(XM).....	Winnipeg
Connacher, Marjorie.....	(XM).....	Winnipeg
Cooper, Edwin S.....	(U).....	Winnipeg
Cox, Alexander.....	(U).....	Winnipeg
Crofts, Howard J.....	(U).....	Winnipeg
Curry, Octavia M.....	(U).....	Winnipeg
Dashefsky, Fanny R.....	(U).....	Winnipeg
Davidson, James A.....	(U St. J).....	Neepawa, Man.
Dawson, Harold B.....	(U).....	Winnipeg

<i>Name</i>	<i>College</i>	<i>Address</i>
Dawson, John A.....	(U).....	Winnipeg
Dewey, Leveret H.....	(U).....	Moose Jaw, Sask.
Dickson, Dorothy E.....	(U).....	Winnipeg
Dobson, Evelyn M.....	(U).....	Winnipeg
Douglas, Alixe C.....	(U).....	Winnipeg
Drach, Samuel J.....	(U).....	Winnipeg
Draper, Herbert L.....	(U W).....	Elm Grove, Man.
Ebbern, Thomas W.....	(XM).....	Sinclair, Man.
Edwards, Arthur.....	(U).....	Winnipeg
Einarsson, Einar.....	(U W).....	Calder, Sask.
Fallon, Catherine M.....	(XM).....	Winnipeg
Fallon, Margaret J.....	(XM).....	Winnipeg
Fenson, Molly.....	(U).....	Winnipeg
Ferguson, Maude E.....	(U).....	Winnipeg
Fisher, Mary C.....	(U).....	Winnipeg
Flanagan, Eileen.....	(XM U).....	Fort William, Ont.
Fletcher, Margaret.....	(U).....	Winnipeg
Fogel, Rosalie M.....	(U).....	Winnipeg
Forbes, Pauline M.....	(U).....	Winnipeg
Foster, Alfreda C.....	(U XM).....	Plumas, Man.
Francis, Ruth C.....	(U).....	Portage la Prairie, Man.
Fraser, Colin A.....	(U).....	Winnipeg
Fraser, Jessie M.....	(U).....	Morris, Man.
Fraser, Margaret S.....	(U).....	Crandall, Man.
Funk, Henry.....	(U).....	Herbert, Sask.
Garland, Frank R.....	(U).....	Winnipeg
Giesbrecht, John H.....	(XM).....	Plum Coulee, Man.
Gislason, Ingvar.....	(XM).....	Reykjavik P.O., Man.
Graham, Edith M.....	(U).....	Melita, Man.
Graham, Henry I.....	(U).....	Stockton, Man.
Granger, David.....	(St. B).....	St. Jean Baptiste, Man.
Greene, Harry.....	(XM).....	Winnipeg
Griggs, William D. P.....	(U).....	Griswold, Man.
Gunn, Aileen.....	(U).....	Winnipeg
Gunn, Isobel.....	(U).....	Winnipeg
Gunn, Robert R.....	(U).....	Winnipeg
Hacking, Frank.....	(U).....	Winnipeg
Halprin, Sara E.....	(U).....	Winnipeg
Harvey, John G.....	(U).....	Winnipeg
Hawkins, Alexander R.....	(XM).....	Malonton, Man.
Hawkins, Nora G.....	(U).....	Winnipeg
Hayakawa, Samuel G.....	(U).....	Winnipeg
Henry, Jessie B.....	(U).....	Calgary, Alta.
Herriot, Ruth M.....	(U).....	Winnipeg
Hewitt, Robert E.....	(U).....	McAuley, Man.
Hill, F. Martin.....	(XM).....	Winnipeg
Hill, Lydia B.....	(U).....	Hartney, Man.
Hinds, Esther.....	(W).....	Winnipeg
Hislop, Helen J.....	(U W).....	Arcola, Sask.
Hunter, Edgar N.....	(U).....	Winnipeg
Jack, Frances E.....	(U).....	Winnipeg
Jack, Vaughan A.....	(U).....	Winnipeg
Johnson, Bergthora.....	(U).....	Winnipeg
Kahanovitch, Fred.....	(U).....	Winnipeg
Kasperski, Joseph F.....	(XM).....	Whitkow, Sask.
Kellett, Florence H.....	(XM).....	Winnipeg

<i>Name</i>	<i>College</i>	<i>Address</i>
Kelly, Marion.....	(U).....	Winnipeg
Kelly, Thelma R.....	(U).....	Winnipeg
Kenning, Ruth W.....	(U).....	Winnipeg
Kert, Max A.....	(U).....	Winnipeg
King, Leona J. M.....	(XM).....	Winnipeg
Kinney, Hilda K.....	(U).....	Winnipeg
Korman, Bertha.....	(U).....	Winnipeg
Kowalson, Annie.....	(U).....	Winnipeg
Kritzwisser, Orville E.....	(St. B).....	Regina, Sask.
Kusch, Leonard D.....	(St. B).....	Regina, Sask.
Laing, Stanley B.....	(U).....	Winnipeg
Laliberté, Leo.....	(St. B).....	Raith, Ont.
Lancaster, Thomas R.....	(U).....	Sarnia, Ont.
Leathers, Victor L.....	(U).....	Heaslip, Man.
Leech, Mary N.....	(U W).....	Winnipeg
Levin, David.....	(U XM).....	Winnipeg
Levin, Lottie.....	(U).....	Winnipeg
Lind, Roy.....	(U).....	Winnipeg
Loutit, Annie M.....	(U).....	Selkirk, Man.
Lyall, Margaret A.....	(U).....	R.R. No. 1, Winnipeg
McCall, Muriel B.....	(U).....	Selkirk, Man.
McCartney, Garnet C.....	(U).....	Stonewall, Man.
McDonald, Jeanette G.....	(U W).....	Roland, Man.
McDonald, Tena H.....	(U).....	Hartney, Man.
McDougall, Emile.....	(St. B).....	Ste. Amelie, Man.
McGavin, Evelyn.....	(U).....	Winnipeg
McHardy, Esther C. M.....	(U).....	Winnipeg
McKittrick, Edith A.....	(U W).....	Crystal City, Man.
McLean, Charles S.....	(XM).....	Arran, Sask.
McLean, John R.....	(U).....	Arran, Sask.
McLeod, John A.....	(U).....	Montague, P.E.I.
McNally, Evelyn S.....	(U).....	Winnipeg
McNeill, Gertrude J.....	(U).....	Winnipeg
McQuarrie, Etelka B.....	(W).....	Winnipeg
McQueen, Gladys K.....	(U XM).....	Glenboro, Man.
Macdonald, Ewen T.....	(U).....	Winnipeg
Mackidd, Mary A.....	(U).....	Winnipeg
MacLean, Marjorie E.....	(U).....	Winnipeg
MacLeod, Helen.....	(U).....	Stonewall, Man.
MacTavish, Asenath C.....	(XM).....	Winnipeg
Mager, Jean.....	(St. B).....	St. Boniface, Man.
Mager, René.....	(St. B).....	St. Boniface, Man.
Mathieson, Hazel M.....	(U).....	Winnipeg
Meech, Muriel.....	(U W).....	Winnipeg
Meighen, Jean.....	(U).....	Portage la Prairie, Man.
Melsted, Gordon.....	(U).....	Winnipeg
Metcalf, Ross.....	(XM).....	Winnipeg
Miller, Sam.....	(U).....	Winnipeg
Milligan, Eleanor A.....	(XM).....	Winnipeg
Milligan, Irene M.....	(U XM).....	Winnipeg
Mitchell, William V.....	(U).....	Winnipeg
Moore, Clarence.....	(XM).....	Winnipeg
Mossman, Eleanor P.....	(U).....	Moosomin, Sask.
Murkar, Mary M.....	(U).....	Winnipeg
Neil, Sydney.....	(U).....	Transcona, Man.
Nitikman, Israel.....	(U).....	Winnipeg

<i>Name</i>	<i>College</i>	<i>Address</i>
O'Donnell, Margaret.....	(XM).....	Winnipeg
Oliver, Elizabeth C.....	(U).....	Winnipeg
O'Neill, Ada G.....	(W).....	Winnipeg
Osborne, Elizabeth.....	(U).....	Winnipeg
Pall, Gordon.....	(U).....	Winnipeg
Parker, Harry E.....	(W).....	Winnipeg
Pentland, Arthur.....	(U).....	Anglia, Sask.
Pickersgill, John W.....	(U).....	Ashern, Man.
Prendergast, Albert.....	(St. B).....	St. Boniface, Man.
Prud'homme, Charland.....	(St. B).....	St. Boniface, Man.
Ralston, Keith M.....	(U).....	Morden, Man.
Rieger, Jean C.....	(U).....	Winnipeg
Robson, Harold.....	(U W).....	Arcola, Sask.
Robson, Hugh L.....	(U).....	Winnipeg
Rosenblat, Mary.....	(U).....	Winnipeg
Ross, Christina J.....	(U).....	Winnipeg
Roy, Harold.....	(St. B).....	Ste. Amelie, Man.
Rubin, Sara.....	(XM).....	Winnipeg
Rumford, Arleigh J.....	(U).....	Winnipeg
Russell, Eileen F.....	(U).....	Winnipeg
Russell, Ruth M.....	(U).....	Winnipeg
Sanders, Robert B.....	(U).....	Winnipeg
Schulman, Hyman.....	(U).....	Winnipeg
Scott, Rachel M.....	(XM).....	Edwin, Man.
Seale, C. Eleanor.....	(U).....	Winnipeg
Sellers, Marion M.....	(U).....	Winnipeg
Shannon, Mabel.....	(XM).....	Winnipeg
Sharman, Frances B.....	(U).....	Oak Lake, Man.
Sinclair, Jack H.....	(U).....	Winnipeg
Skidmore, William.....	(XM).....	Ladywood, Man.
Smith, Anna M.....	(U).....	Gladstone, Man.
Smith, Kathleen.....	(U).....	Winnipeg
Soronow, Ruth.....	(XM).....	Winnipeg
Sparling, Douglas B.....	(U W).....	Winnipeg
Speechly, William G.....	(U).....	Winnipeg
Spratt, J. Grant.....	(U).....	Winnipeg
Stewart, Iva J.....	(XM).....	Elgin, Man.
Stoller, Fanny.....	(U).....	Winnipeg
Sutherland, Margaret M.....	(U).....	Winnipeg
Swartz, Sam L.....	(U).....	Winnipeg
Tadman, Marjory.....	(U).....	Winnipeg
Taylor, Edmund G.....	(U).....	Winnipeg
Taylor, Vernon.....	(U).....	Winnipeg
Thexton, Annie C.....	(W).....	Selkirk, Man.
Thomson, Isabelle M.....	(U).....	Winnipeg
Tibbitt, Berry W.....	(XM).....	Rama, Sask.
Tinney, William.....	(XM St. J).....	Winnipeg
Tollington, Doris B.....	(U).....	Winnipeg
Tomlinson, George J.....	(XM).....	Raymore, Sask.
Tuck, Edward B.....	(U).....	Winnipeg
Turner, Margaret L.....	(XM).....	Winnipeg
Underwood, Eva M.....	(XM).....	Winnipeg
Vant, Margaret.....	(XM).....	Winnipeg
Whitbread, Robert B. T.....	(U).....	Winnipeg
Whitlaw, George E.....	(U W).....	Deloraine, Man.
Whitman (Mrs.) L. M.....	(XM).....	Emerson, Man.

<i>Name</i>	<i>College</i>	<i>Address</i>
Wickens, Stephen J.....	(XM).....	Killarney, Man.
Wilson, Rutha H.....	(U W).....	Winnipeg
Wintemute, Karl.....	(U).....	Winnipeg
Young, Marjorie E.....	(U).....	Winnipeg
Zaslow, Eleanor.....	(XM).....	Winnipeg

ARTS

Third Year—Special Students

<i>Name</i>	<i>College</i>	<i>Address</i>
Adamson, Wilfrid G.....	(U).....	Newdale, Man.
Barnett, Thomas D.....	(U).....	Ireland
Beckstead, James O.....	(XM).....	Birtle, Man.
Bell, John E.....	(U).....	Winnipeg
Birchard, May.....	(U).....	Winnipeg
Brander, Laura J. E.....	(XM).....	Winnipeg
Carstens, Kaethe M.....	(U).....	Winnipeg
Cavers, David.....	(U).....	Winnipeg
Couch, Carlyle S.....	(XM).....	Rivers, Man.
Davidson, Alan M.....	(U).....	Winnipeg
Dawson, Richard F.....	(U St. J).....	Winnipeg
Dubitsky, Moses.....	(U).....	Montreal, Que.
Fallon, Catherine M., M.A.,	(XM).....	Winnipeg
Freeman (Mrs.), Charlotte.....	(U).....	Winnipeg
Hulme, James T.....	(XM).....	Macgregor, Man.
Kerr, Annie H.....	(U).....	Winnipeg
Magrath, Sidney A.....	(U).....	Calgary, Alta.
Montgomery, Jennie.....	(U).....	Stonewall, Man.
Murdoch, John M.....	(U).....	Edmonton, Alta.
Neufeld, Gerhard G.....	(U).....	Winnipeg
Rosenberg, Jehiel.....	(XM).....	Montreal, Que.
Simms, M. Ethel.....	(XM).....	Holland, Man.
Stephen, John.....	(U).....	Winnipeg
Zanphir, Bechy.....	(U).....	Winnipeg

ARTS

Fourth Year

<i>Name</i>	<i>College</i>	<i>Address</i>
Agnew, Janet M.....	(U).....	Winnipeg
Aikenhead, John D.....	(U).....	Winnipeg
Amies, Gertrude M.....	(U).....	Winnipeg
Aronovitch, Julia.....	(U).....	Winnipeg
Atrubin, Harry.....	(U).....	Earl Grey, Sask.
Axelrode, Jeanette.....	(U).....	Winnipeg
Bain, Catherine F.....	(XM).....	Winnipeg
Barker, Edward S.....	(St. B).....	Winnipeg
Batho, Elgin R.....	(U).....	Winnipeg
Bendit, Ethel.....	(U).....	Winnipeg
Bennee, Maud M.....	(U).....	Weyburn, Sask.
Bennett, Percival B.....	(XM).....	Arden, Man.
Beveridge, James R.....	(U).....	Camrose, Alta.
Bickford, Arthur.....	(U).....	Benito, Man.
Bildfell, Hrefna.....	(U W).....	Winnipeg

<i>Name</i>	<i>College</i>	<i>Address</i>
Bildfell, Jon.....	(W).....	Winnipeg
Blair, Harry.....	(XM).....	Winnipeg
Blumes, Cecile.....	(U).....	Winnipeg
Bower, Perry S.....	(U).....	Winnipeg
Bower, Richard.....	(U).....	Winnipeg
Bowman, Mary P.....	(U).....	Winnipeg
Briggs, Marion E.....	(U).....	Winnipeg
Brock, William G.....	(U).....	Winnipeg
Brown, Iyla M.....	(U).....	Winnipeg
Brown, Lloyd J.....	(U).....	Winnipeg
Burland, Elizabeth J.....	(U).....	Winnipeg
Burleigh, Nora C.....	(U).....	Winnipeg
Burrows, Cecil J.....	(U).....	Lena, Man.
Cameron, Grace I.....	(U).....	Winnipeg
Chambers, Nora V.....	(U).....	Selkirk, Man.
Cochin, Judith.....	(XM).....	Detroit, Mich.
Cockburn, Edna L.....	(U W).....	Winnipeg
Cohen, Joseph.....	(U).....	Winnipeg
Collins, Frances M.....	(U).....	Winnipeg
Cosgrave, Gerald P.....	(U).....	Winnipeg
Coutts, Beatrice E. E.....	(XM).....	Winnipeg
Cross, Mary L.....	(XM).....	Winnipeg
Curran, Robert E.....	(U).....	Winnipeg
Dakins, John G.....	(XM).....	Winnipeg
Davidson, Alan M.....	(U).....	Winnipeg
Davis, Dorothy St. C.....	(U).....	Winnipeg
Deis, Peter S.....	(St. B).....	Vibank, Sask.
Donaldson, William S.....	(U).....	Winnipeg
Doupe, Cranston S.....	(U).....	Winnipeg
Doyle, Alice P.....	(U W).....	Winnipeg
Driscoll, Louis.....	(U).....	Winnipeg
Dubnov, Annie.....	(U).....	Winnipeg
Fargey, James L.....	(U).....	La Riviere, Man.
Farrell, Orland Van Norman.....	(U).....	Dauphin, Man.
Fleming, Hilda.....	(U).....	Winnipeg
Fletcher, Mrs. Isabelle G.....	(U).....	Winnipeg
Fogel, William.....	(U).....	Winnipeg
Foster, Fred E.....	(U).....	Lena, Man.
Fraser, Jean C.....	(U).....	Winnipeg
Gamey, Birdie E.....	(U W).....	Newdale, Man.
Gauer, Elsie.....	(U).....	Winnipeg
Gerein, Antony B.....	(St. B).....	Vibank, Sask.
Gilbart, Keezie C.....	(U).....	Spy Hill, Sask.
Gilbert, Alberta.....	(U).....	Winnipeg
Goldin, Fanny.....	(U).....	Winnipeg
Good, Rita.....	(XM).....	Kirkfield Park, Man.
Gordon, Gretta H.....	(U).....	Winnipeg
Goresky, Isidore W.....	(XM).....	East Selkirk, Man.
Graham, Ida C.....	(XM).....	Austin, Man.
Gray, Alice M. R.....	(U).....	Winnipeg
Gregory, Sadie M.....	(XM).....	Winnipeg
Griggs, Earl N.....	(U W).....	Griswold, Man.
Grimard, Alexander L.....	(St. B).....	Prud'homme, Sask.
Harkness, A. I. Arla.....	(U).....	Winnipeg
Harkness, Elmore G.....	(U).....	Winnipeg
Hasselfield, William.....	(U).....	Manitou, Man.

<i>Name</i>	<i>College</i>	<i>Address</i>
Henn, Harold C.....	(XM).....	Winnipeg
Hervo, Leon.....	(St. B).....	Fort Garry P.O., Man.
Hogg, Robert W.....	(XM).....	Winnipeg
Hopkins, Jean F. C.....	(U).....	Stockton, Man.
Howlett, Annetta K.....	(U W).....	Winnipeg
Hume, Beatrice A.....	(W).....	Oak River, Man.
Insley, Edith V.....	(U W).....	Virden, Man.
Jefferies, Isobel K.....	(U).....	Winnipeg
Kerr, Annie H.....	(U).....	Winnipeg
Keyes, Dorothy.....	(U).....	Winnipeg
Kirby, Shelagh.....	(U).....	Winnipeg
Lane, Homer R.....	(U W).....	Stonewall, Man.
Lang, William E.....	(U).....	Oak River, Man.
LeCocq, Thelma.....	(U).....	Winnipeg
Levin, Bessie.....	(XM).....	Winnipeg
Levinson, Etta.....	(U).....	Winnipeg
Leveque, Emilien J.....	(St. B).....	Winnipeg
L'Heureux, Paul.....	(St. B).....	St. Boniface, Man.
Lightcap, Jack S.....	(U).....	Winnipeg
Livingstone, Catherine M.....	(U).....	Deloraine, Man.
McConnell, Anna M.....	(U).....	Carman, Man.
McDonald, Walter C.....	(U W).....	Roland, Man.
McGregor, Robert C.....	(U).....	Carman, Man.
McKay, Jean.....	(U).....	Winnipeg
MacFadyen, Donald.....	(U).....	Winnipeg
Machray, Mary.....	(U).....	Winnipeg
MacLean, James D.....	(U).....	Winnipeg
Malach, Aloysius J.....	(St. B).....	Candiac, Sask.
Malach, Thaddeus S.....	(St. B).....	Candiac, Sask.
Mason, Caroline E.....	(U).....	Stonewall, Man.
Meder, Francis E.....	(St. B).....	Winnipeg
Mingay, Henry G.....	(XM).....	Winnipeg
Moon, William A.....	(U).....	Winnipeg
Moore, Margaret MacL.....	(U).....	Winnipeg
Morrison, Freda I.....	(U W).....	Sperling, Man.
Murray, Catherine G.....	(U).....	Fort Frances, Ont.
Murray, John D.....	(W).....	Winnipeg
Neufeld, Gerhard G.....	(U).....	Winnipeg
Newell, Arden G.....	(U).....	Neepawa, Man.
Noble, Nellie.....	(U).....	Winnipeg
Norris, Ivor A.....	(U St. J).....	Winnipeg
Orr, Allan H.....	(U).....	Swift Current, Sask.
Parent, Jennie May.....	(U).....	Winnipeg
Perrin, Gertrude B.....	(U W).....	Hartney, Man.
Perry, Gordon J.....	(U).....	Hartney, Man.
Peters, Henry B.....	(U).....	Winnipeg
Petursson, Thorvaldur.....	(U).....	Winnipeg
Pidgeon, Lloyd.....	(U).....	Winnipeg
Pingle, Elizabeth M.....	(U).....	Winnipeg
Pitt, Edith J.....	(U W).....	Dryden, Ont.
Porteous, Audrey E.....	(U).....	Winnipeg
Portigal, Frances.....	(U).....	Winnipeg
Prendergast, James A.....	(U).....	Winnipeg
Price, Marion A.....	(U W).....	Fort Frances, Ont.
Pyne, Hester.....	(U).....	Winnipeg
Rabinovitch, Ruby.....	(U).....	Morden, Man.

<i>Name</i>	<i>College</i>	<i>Address</i>
Reid, Mildred F.....	(U).....	Winnipeg
Rhodes, Dorothy E. A.....	(U).....	Winnipeg
Riddell, William.....	(U).....	Oakner, Man.
Riley, Josephine.....	(U).....	Winnipeg
Ritchie, Margaret C.....	(U).....	Winnipeg
Roberts, Hugh.....	(U).....	Winnipeg
Roberts, Margery N. D.....	(XM).....	Winnipeg
Robertson, Elva J.....	(U).....	Treherne, Man.
Rollins, Elva M.....	(U).....	Killarney, Man.
Rosner, Freda R.....	(U).....	Winnipeg
Rothwell, Lucille Eleanor.....	(U).....	Winnipeg
Schwinghamer, Ermalinda.....	(XM).....	Bruno, Sask.
Service, Wilma F.....	(U).....	Winnipeg
Shaw, Helen F.....	(U).....	Winnipeg
Sigurdsson, Stefania.....	(U).....	Winnipeg
Sigurdsson, Valgerdur.....	(U).....	Winnipeg
Smalley, James B.....	(U).....	Winnipeg
Smith, Allan.....	(U).....	Winnipeg
Smith, Lillian E.....	(W U).....	Portage la Prairie, Man.
Smith, Melba E. N.....	(U).....	Winnipeg
Spice, Mary.....	(U).....	Yorkton, Sask.
Stanko, James N.....	(U).....	Valley River, Man.
Steedsman, Helen M.....	(U).....	Deloraine, Man.
Stephens, John M.....	(U).....	Winnipeg
Stephenson, Harold J.....	(W).....	Winnipeg
Thomas, John M.....	(U).....	Assiniboia, Sask.
Van Bellegham, George E.....	(St. B).....	Winnipeg
Warner, Gladys Mae.....	(U).....	Winnipeg
Waterman, Orlando J.....	(U).....	Winnipeg
Weinberg, Harry.....	(XM).....	Winnipeg
Wilkinson, Ida G.....	(U W).....	Gladstone, Man.
Williams, Clement E.....	(XM).....	Winnipeg
Yudluvitz, Mary.....	(XM).....	Winnipeg

ARTS

Forth Year—Special Students

<i>Name</i>	<i>College</i>	<i>Address</i>
Bell, John E.....	(U).....	Winnipeg
Bulman, Bessie (M.A.).....	(U).....	Winnipeg
Cochrane, Mrs. Edith.....	(XM).....	Winnipeg
Cochrane, Robert J.....	(XM).....	Winnipeg
Dawson, Richard F.....	(U).....	Winnipeg
Fallon, Catherine M., M.A.....	(XM).....	Winnipeg
Hill, Albert.....	(XM).....	Shoal Lake, Man.
MacLeod, Helen.....	(U).....	Stonewall, Man.
Metcalfe, Ross.....	(XM).....	Winnipeg
Murdoch, John Murray (B.A.).....	(U).....	Edmonton, Alta.
Murray, Margaret.....	(XM).....	Winnipeg
Phinney, Doris M.....	(U).....	Winnipeg
Smith, Muriel H.....	(U).....	Winnipeg
Underwood, Eva M.....	(XM).....	Winnipeg

ARTS

Fourth Year—Special Course for Teachers

<i>Name</i>	<i>Address</i>
Acheson, Mary H.....	Winnipeg
Addison, Gertrude M.....	Winnipeg
Babb, Reta M.....	Winnipeg
Baxter, Duncan A.....	Transcona, Man.
Bird, Catherine C.....	Winnipeg
Brander, Laura J. E.....	Winnipeg
Davey, Frank C.....	Winnipeg
Duncan, George A.....	Winnipeg
Essery, Verne H.....	Winnipeg
Everall, Henry J.....	Roblin, Man.
Forsyth, Mary A.....	Winnipeg
Gillespie, Alfred B.....	Winnipeg
Goodridge, Archer F.....	Winnipeg
Haines, Howard R.....	Killarney, Man.
Hunter, George.....	Deloraine, Man.
Hutchings, Cecil J.....	Portage la Prairie, Man.
Jacobs, Gladys.....	Winnipeg
Johnston, Frederick L.....	Winnipeg
McCrum, Rae E.....	Winnipeg
Neely, Margaret H.....	Winnipeg
Pannell, Raymond G.....	Winnipeg
Peach, John S.....	Swan River, Man.
Poole, George B.....	Winnipeg
Stephen, Grace M.....	Winnipeg
Templeman, Annie E.....	Winnipeg
Wade, George M.....	Charleswood, Man.

ARTS

Fourth Year—Special Students—Special Course for Teachers

<i>Name</i>	<i>Address</i>
Bell, Margaret J. (B.A., Man.).....	Winnipeg
Bucknam, Hazel M. (B.A., Man.).....	Winnipeg
Glenn, Amber L. (B.A., Man.).....	Winnipeg
Gough, Walter T. (B.A., Man.).....	Winnipeg
Hewton, Ethel G. (M.A.).....	Winnipeg
Horner, Marjorie M. (B.A., Man.).....	Winnipeg
Johnson, Mary E. (B.A., Man.).....	Victoria, B.C.
McBeth, Margaret (B.A., Man.).....	Inkster P.O., Man.
McColl, Flora E. (B.A., Man.).....	Winnipeg
McColl, Mary L. (B.A., Man.).....	Winnipeg
Moore, Elsie E. (B.A., Man.).....	Winnipeg
Scholes, Luella (B.A., Queen's).....	Winnipeg
Thompson, Alberta A. C. (B.A., Man.).....	Winnipeg

SCIENCE

Second Year (Honors)

<i>Name</i>	<i>Address</i>
Aronovitch, Judson M.....	Winnipeg
Baker, Louis.....	Winnipeg
Indridson, Beo C.....	Mountain, N.D.
Kelly, Russell W.....	Winnipeg
Kirkpatrick, Gordon C.....	Ridgeville, Man
Smith, Donald J.....	Reston, Man.

SCIENCE

Second Year—Special Students

<i>Name</i>	<i>Address</i>
Doctoroff, Samuel.....	Winnipeg
Hall, Reginald M.....	Winnipeg
Mozley, Alan.....	Winnipeg
Nyman, Ernest G. E.....	Winnipeg
Simard, Lionel R.....	Cabri, Sask.

Second Year—Combined B.Sc.-M.D. Course

<i>Name</i>	<i>Address</i>
Crawford, John N. B.....	Winnipeg
Downie, Donald L.....	Winnipeg
Goluboff, Louis.....	Winnipeg
Goresky, Victor.....	Stonewall, Man.
Hall, Andrew Gould.....	Kisbey, Sask.
Laxdal, Jon K.....	Arborg, Man.
Marteinsson, Brandur T. H.....	Winnipeg
Miller, Isaac.....	Winnipeg
Perlman, Zechariah.....	Winnipeg
Rothstein, Harry A.....	Winnipeg
Rumsey, William.....	Winnipeg
Williams, Donald.....	Winnipeg

SCIENCE

Third Year

<i>Name</i>	<i>Address</i>
Archibald, Donald C.....	Hazelridge, Man.
Armstrong, Ida M.....	Winnipeg
Aronovitch, Rozelle.....	Winnipeg
Brocklesby, Horace.....	Winnipeg
Bulman, Dorothy M.....	Winnipeg
Calman, Max.....	Winnipeg
Clark, Victor G.....	Winnipeg
Cotsivman, Alex.....	Winnipeg
Craigie, Albert W.....	Mingomiah, N.S.
Doctoroff, Samuel.....	Winnipeg
Fallis, Edgar S.....	Winnipeg

<i>Name</i>	<i>Address</i>
Jickling, James G.....	Morden, Man.
Johnson, Helgi.....	Winnipeg
Kanchier, Paul.....	Winnipeg
McDougal, K. Grant.....	Winnipeg
McEachern, Colin M.....	Winnipeg
Quinn, Reay P.....	Winnipeg
Reid, James F. S.....	Orcadia, Sask.
Riddell, Robert M.....	Portage la Prairie, Man.
Stein, Norman O.....	Winnipeg
Walton, Charles H. A.....	Winnipeg
Zeavin, Samuel.....	Winnipeg

SCIENCE

Third Year—Special Students

<i>Name</i>	<i>Address</i>
Birse, Donald J.....	Winnipeg
Dyson, David W.....	Winnipeg
Genser, Lawrence.....	Winnipeg
Mozley, Alan.....	Winnipeg
Simard, Lionel R.....	Cabri, Sask.

SCIENCE

Fourth Year

<i>Name</i>	<i>Address</i>
Bere, Ruby.....	Winnipeg
Blair, Henry A.....	Winnipeg
Cameron, Frank P.....	Winnipeg
Fraser, Horace J.....	Swan River, Man.
McCullagh, Douglas R.....	Winnipeg
Pearlman, Sidney J.....	Winnipeg
Reid, Roger J.....	Winnipeg
Samson, Edward W.....	Winnipeg
Saunders, Clifford G.....	Morden, Man.
Ward, George.....	Winnipeg
Webb, John B.....	Winnipeg

SCIENCE

Fourth Year—Special Students

<i>Name</i>	<i>Address</i>
Birse, Donald J.....	Winnipeg
Donaldson, William S.....	Winnipeg
Farrell, Conway M. G.....	Regina, Sask.
Gilbert, Alberta.....	Winnipeg
Goodeve, Charles F.....	Winnipeg
Greer, Leonard (B.A.).....	Winnipeg
Hutt, Gordon McL.....	Winnipeg
Mozley, Alan.....	Winnipeg
Pearlman, Louis.....	Winnipeg
Sigurdsson, Stefania.....	Winnipeg

PHARMACY**First Year**

<i>Name</i>	<i>Address</i>
Connor, John B.....	Kenora, Ont.
Doner, Solomon.....	Winnipeg
Griffin, Horace F.....	MacGregor, Man.
Leask, George S.....	Arden, Man.
Gray, Neil M.....	Souris, Man.
Greenberg, William.....	Winnipeg
Hill, George K.....	Portage la Prairie, Man.
Hoffer, Max.....	Winnipeg
Jolly, Thomas E. H.....	Winnipeg
Lidster, Peter E.....	Elkhorn, Man.
Markle, Harry B.....	Winnipeg
Moffat, Robert E.....	Portage la Prairie, Man.
Publow, William R.....	Hamiota, Man.
Turner, Thomas.....	Minnedosa, Man.
Wodlinger, Lawrence.....	Winnipeg

PHARMACY**Second Year**

<i>Name</i>	<i>Address</i>
Brown, Alexander MacD.....	Winnipeg
Brown, Malvin J.....	Dauphin, Man.
Buggey, Leslie F.....	Rivers, Man.
Cleghorn, Raymond.....	Baldur, Man.
Davidson, Hugh J.....	Cartwright, Man.
Gray, Frederick M.....	Winnipeg
Hatch, John G.....	Birtle, Man.
Holloway, Gordon A.....	Balmoral, Man.
Kliman, Gordon.....	Winnipeg
Lang, Warren M.....	Winnipeg
Lougheed, William McL.....	Brandon, Man.
Maley, John A.....	Brandon, Man.
Martin, Gordon G.....	Winnipeg
Neil, Harry.....	Reston, Man.
O'Brien, Peter G.....	Winnipeg
Osofsky, Samuel.....	Winnipeg
Pringle, Ira H.....	Selkirk, Man.
Redlich, Frank A.....	Winnipeg
Searle, Arthur J.....	Winnipeg
Setter, George M.....	Winnipeg
Turner, Welford B.....	Winnipeg
Zalozetsky, Nicholas L.....	Winnipeg

MASTER OF ARTS

<i>Name</i>	<i>Address</i>
Abraham, Solomon (B.A., Man.).....	Winnipeg
Allard, Hector (B.A., Man.).....	Marquette, Man.
Arthur, Joseph (B.A., Man.).....	Winnipeg
Bailey, Arthur (B.A., Man.).....	Winnipeg
Bartlett, George W. (B.A., Man.).....	Eriksdale, Man.

<i>Name</i>	<i>Address</i>
Bell, Margaret J. (B.A., Man.)	Winnipeg
Belleau, Wilfrid E. (A.B., Whitman)	Lacombe, Alta.
Bernier, Mathilde (B.A., Man.)	Winnipeg
Boismier, M. Louise (B.A., Man.)	Winnipeg
Boiteau, Caroline (B.A., Man.)	Winnipeg
Bushe, William F. (B.A., Man.)	Shoal Lake, Man.
Clark, Leonard B. (B.A., Man.)	Winnipeg
Clement, Harold D. (B.A., Man.)	Brandon, Man.
Cooke, Charles G. (B.A., Man.)	Winnipeg
Dainton, Archibald S. (B.A., Sask.)	Detroit, Mich.
Dawson, Philip W. (B.A., Toronto)	Winnipeg
Deyell, James R. V. (B.A., Man.)	Winnipeg
Doupe, Sadie, C. (B.A., Man.)	Winnipeg
Dowler, Minnabell A. (B.A., Man.)	Winnipeg
Duncan, Lottie J. (B.A., Chicago)	Winnipeg
Dunn, Dorothy P. (B.A., Man.)	Winnipeg
Elliott, George A. (B.A., Man.)	Macklin, Sask.
Frayne, Robert M. (B.A., Man.)	Stonewall, Man.
Fyles, William A. T. (B.A., Man.)	Winnipeg
Glenn, Amber L. (B.A., Man.)	Winnipeg
Gough, Walter T. (B.A., Man.)	Winnipeg
Grant, Henry C. (B.S.A., Man.)	Winnipeg
Gray, William H. (B.A., Man.)	Winnipeg
Greenway, Harold F. (B.A., Man.)	Winnipeg
Griffin, Gordon N. (B.A., Man.)	Moose Jaw, Sask.
Hamilton, Jean V. (B.A., Man.)	Winnipeg
Harris, Florence A. (B.A., Man.)	Winnipeg
Hopper, Clark (B.A., Man.)	Winnipeg
Ibbetson, Percy V. (B.A., LL.B., Man.)	Swan River, Man.
Katsunoff, Robert G. (B.A., Roberts)	Winnipeg
Kay, H. Eileen (B.A., Man.)	Winnipeg
King, Thomas P. (B.A., Man.)	Winnipeg
Leach, Hubert F. (B.A., Man.)	Tisdale, Sask.
LeBlanc, Joseph (B.A., Man.)	St. Norbert, Man.
McBeth, Margaret E. (B.A., Man.)	Inkster P.O., Man.
McCulloch, Wm Douglas (B.A., Man.)	Winnipeg
McLeod, Daniel R. (B.A., Man.)	Dauphin, Man.
MacManus, Mary L. (B.A., Man.)	Woodstock, N.B.
Magnusson, Agnar, R. (B.A., Man.)	Lundar, Man.
Marion, Marie E. A. (B.A., Man.)	Winnipeg
Martin, Robert (B.A., Durham)	Poplar Point, Man.
Matheson, John P. (B.A., Man.)	Winnipeg
Michell, David S. (B.A., Man.)	Winnipeg
Muldrew, Alfred W. (B.A., Man.)	Winnipeg
Parker, Elbridge D. (B.A., Man.)	Winnipeg
Puttee, Dorothy (B.A., Man.)	Winnipeg
Ridd, Dwight N. (B.A., Man.)	Winnipeg
Ridd, John Elwood (B.A., Man.)	Franklin, Man.
Robinson, Homer S. (B.A., LL.B., Man.)	Winnipeg
Rogers, Clifford K. (B.A., Man.)	Glenboro, Man.
Saunders, Doris B. (B.A., Man.)	Winnipeg
Silberfarb, Samuel (B.A., Man.)	Winnipeg
Singleton, Wilfred B. (B.A., B.D., Man.)	Emerson, Man.
Sullivan, Kathleen C. (B.A., Man.)	Winnipeg
Suttis, Laura (B.A., Man.)	Starbuck, Man.
Thompson, Alberta A. C. (B.A., Man.)	Winnipeg

<i>Name</i>	<i>Address</i>
Waines, William J. (B.A., Man.).....	St. Vital, Man.
Wallis, John B. (B.A., Man.).....	Winnipeg
Wilson, Christina (B.A., Man.).....	Winnipeg
Wilson, John O. (B.A., Man.).....	Viriden, Man.
Woods, Daniel S. (B.A., Queen's).....	Miami, Man.

MASTER OF SCIENCE

<i>Name</i>	<i>Address</i>
Baker, William F. (B.A., B.Sc., Man.).....	Crystal City, Man.
Bird, Ralph D. (B.Sc., Man.).....	Birtle, Man.
Brownell, George M. (B.Sc., Man.).....	Winnipeg
Fleming, Allan J. (B.Sc., Man.).....	Winnipeg
Lipsett, Solomon G. (B.Sc., Man.).....	Winnipeg
Lockshin, Nathan (B.Sc., Man.).....	Winnipeg
McDougall, Dougald (B.Sc. Pharm., Man.).....	Winnipeg
Maynard, James E. (B.A., B.Sc., Man.).....	Deloraine, Man.
Scott, Kirk (B.A., B.Sc., Man.).....	Winnipeg

EVENING BUSINESS COURSES

(The address in each case is Winnipeg)

Aikenhead, S. A.	Coombes, H. N. S.
Aitken, Geo.	Corbett, J. W.
Allen, Lucy	Coulter, Mary E.
Andrews, A. J.	Cox, G. C.
Ashton, Robt.	Crabb, H. P.
Atkinson, R. A. B.	Crapp, Elizabeth
Atwood, F. C.	Daniel, Edith
Bailey, B. A.	Davies, J. M.
Baker, C. C.	Dowlon, E.
Ballentine, F. S.	Drew, H. F.
Beal, F. W.	Drysdale, W.
Bell, C. O.	Dunbar, C. K.
Bell, Eric	Duncan, D. C.
Bell, G. J.	Duncan, J.
Bernhard, U.	Dumouchel, G.
Black, H. A.	Dunn, G. W.
Black, W. H.	Dunn, G. M.
Bloomfield, R. W.	Eadie, W. J.
Bolduan, H. W.	Eaton, Matilda
Bougher, A. L.	Echmier, L. A.
Bowes, G.	Edwards, C. J.
Broadhurst, L. W.	Elkin, E.
Brook, N. S.	Ellerby, C. R.
Brown, H.	Evans, O. S.
Brown, H. W.	Fest, Helene
Brown, J. B.	Finn, K. B.
Burgess, Harold C.	Fraye, C. R.
Burns, John	Gage, R. C.
Campbell, A. C.	Gammie, A. M.
Cawson, S.	Gerrie, C. N.
Cherrie, R.	Gerrie, G. H.
Clay, Gertrude	Gillingham, Edna
Compton, Maud	Golden, S. M.

- Grant, W. M.
 Green, Nessa
 Gyles, P. F.
 Haining, Mabel
 Haining, R.
 Haldorson, Dosia
 Halpin, C. E.
 Halstead, P. M.
 Ham, H. P.
 Hargrave, H. J.
 Hart, A. W.
 Heinicke, A. H.
 Hill, T. D.
 Hilliard, G. F.
 Holland, H. B.
 Howson, G. A.
 James, G. G.
 Johnsson, B. R.
 Kelly, Lois C.
 Kemp, F. A.
 Knight, E. H.
 Ladd, A. M.
 Laird, J. B.
 Latter, H.
 Law, E.
 Le Beau, B.
 Letvak, I.
 Lockhart, J. F.
 Loughlin, N. D.
 Lynde, C. W.
 Lyons, E.
 McBride, G. N.
 McCurdy, Lillian
 McKague, R. E.
 McKelvie, A. C.
 McKenzie, J. S.
 McVey, W.
 Macdonald, A. D.
 Macdonald, J. H.
 Macdonald, V. M.
 MacFarlane, Elizabeth
 MacFarlane, Mary
 MacMillan, J. S.
 Marlow, H. T.
 Marshall, T. A.
 Massey, T. C.
 Middleton, J. L.
 Moffatt, G. R.
 Moissan, L. H.
 Moon, F. J.
 Moore, Kathleen
 Mossman, Sadie C.
 Mount, C. F.
 Muir, Wm. G.
 Newman, Anna
 Nicholls, H. R.
 Olsen, O.
 Orchard, H.
 Owen, J. S.
 Parkinson, R. M.
 Patchell, S. S.
 Patterson, R.
 Pearson, H. H.
 Peebles, J.
 Rae, S. E.
 Rant, J. E. A.
 Rathgeber, James J.
 Rodger, Anne W.
 Rogers, C.
 Ross, A. S. I.
 Rowe, Louise
 Rubin, L.
 Ryssin, Ruby
 Scott, D. G.
 Shapiro, R.
 Shaw, Mary I.
 Shenton, Wm.
 Shuker, Wm. C.
 Sill, Thos.
 Sinclair, D. S.
 Smith, Wm. J.
 Strathdee, C. A.
 Stevens, A. M.
 Steingarten, D.
 Stewart, D.
 Stewart, W. D. M.
 Studnitz, A.
 Sutherland, A. G.
 Swanson, J. W.
 Tait, W. H.
 Taylor, A. J.
 Taylor, J. W.
 Taylor, Janet
 Thompson, Eleanor
 Thompson, S. L.
 Todd, Mrs. Jessie
 Trigg, John
 Troop, J. G.
 Warnicker, Martha
 Weightman, W.
 Weinberg, Dora
 Whatley, R.
 Whitney, Laura
 Wiesner, E.
 Wight, R. G.
 Wildman, A. C. L.
 Wilson, R. F.
 Wilson, Wm.
 Whiteford, Wm.
 Williamson, W. E.
 Wookey, J. H.

DEGREES GRANTED IN ARTS, SCIENCE AND PHARMACY

From April 1st, 1924, to March 31st, 1925
(All as at May 15th, 1924, unless otherwise noted)

Bachelor of Arts

Abbott, John Lyman	Driscoll, Robert John
Ablett, Winnifred Muriel Louise	Dryden, Annie Evelyn
Ackland, Helen Jessie	Dunn, Dorothy
Allard, Hector	Dunnett, John
Allison, Frederick Gerard	Dwyer, William Emmet
Anderson, James Frederick	Easton, Madelin Adair
Anderson, William Abraham, B.Sc.	Echlin, Florence Isabel
Andrew, Florence Estella	Elder, William Hunter
Armstrong, Jerrold Ernst Ruttan	English, Kathleen
Bailey, Arthur	Farewell, Alice Gertrude
Bamford, Frederick William	Fenson, Nathan
Barrow, Evelyn Roberts-french	Ferguson, Agnes Olive
Bathgate, Arthur Edward	Flanders, Elizabeth
Belanger, Rodolphe	Foreman, Fred
Belden, Annie Mabel	Fraser, Eleanor Ada
Belden, Lorne Howe	Fraser, Mabel Jean
Belt, Kathleen Alison	Fraser, Roy Hamilton (as at No-
Bennett, Donald Royden	vember 7th, 1924)
Bergstrom, Inga Cecilia	Frayne, Robert McKee
Bill, William	Gagné, Jean Marie
Bernier, Mathilde	Galt, George Michael
Blakeman, Edna Grace	Garland, Phyllis Helena
Boismier, Mary Louise	Gayton, Selina Jane
Bokofsky, Dora Florence	Gerein, Frank
Boughton, Phoebe Vaughan	Gibson, Robert Riddell
Broley, Myrtle Jeanne	Gilmour, Samuel MacLean
Brown, Elfie	Goldin, Bertha
Bruce, Robert Leishman (as at	Goodwin, Rodney Richard
December 4th, 1924)	Gordon, Margaret
Campbell, Mary Hyndman	Gough, Walter Thomas
Caplan, Max	Gourley, Helen
Carter, Mary Roberta	Gray, Alan McArthur (as at No-
Chercover, Edythe	vember 7th, 1924)
Clement, Harold Dixon	Greenway, Harold Franklin
Clingan, Dorothy Mary	Gunn, Vera Louise
Cochran, Edith Catherine	Gunn, Willa Alice
Coulson, Thomas Albert	Hall, John Henry
Craig, Gladys	Halter, Gerald Sydney (as at No-
Craven, Vida	vember 7th, 1924)
Crealock, Victoria Olive	Hamilton, Evelyn Jean Lamont
Crewson, Etta	Harris, Florence Ada
Crosby, Alma Blanche	Harris, William Wilbert
Cross, Robert McIlroy	Harvey, Lucy Gladys
Curry, Wilma Jane	Haywood, George Edgar
Davie, Albert William	Hoole, Arthur Herbert
Daly, Viola Maude	Hoole, Marjorie Aitken
Davis, Newton Fraser Gordon	Hopper, Gertrude Anne
Deagle, Eugene	Horn, Rebecca
	Houle, Albert Joseph

Bachelor of Arts—Continued

Hunter, George (as at February 19th, 1925)
 Innes, Woonona Mary
 Ives, Evangeline Hope
 James, Francis Edward Howley
 Jardine, Tessie Mary
 Johnson, Mary Ethel
 Johnston, Myrtle Lucinda
 Kaplan, Anne
 Kennedy, Edward Roscoe
 King, Thomas Patrick (as at November 7th, 1924)
 Kristjanson, Wilhelm
 Kyle, Marjorie Florence
 Lafrenière, Hector
 Lamont, Arthur Victor Bolam
 Lamont, Mary Elizabeth
 Leach, Hubert Frank
 Lee, Anna Alberta
 Lees, Mary Hislop
 Long, Florence Isabella Mary
 Longman, Alfred Duncan
 McBrien, David Leslie
 McClure, Alexandra Clow
 McCulloch, William Douglas (as at September 22nd, 1924)
 McEwen, Sanger Duncan
 McIntyre, Lillian Carol
 McKenty, Donna
 McKnight, Lela Helen
 McLellan, Isabel
 McMillan, Kathleen Margaret
 McNeill, James Edward (as at November 7th, 1924)
 Macdonald, Edith
 Macintyre, Frances Henrietta
 Mansur, David Ball
 Manthorne, Josephine Alexandra Eloise
 Marion, Marie Elisa Angéline
 Mason, Guy Montague
 Maxwell, Wallace Kingdon
 Metcalfe, Florence Elizabeth (as at December 4th, 1924)
 Michell, David Sutherland
 Monteith, Barbara Helen
 Morrison, James Boyd
 Morrow, David Clarence
 Murdoch, John Murray
 Nelson, Bertha Eliza
 Ormond, Daniel Stewart (as at November 7th, 1924)
 Parker, Elbridge Doty
 Parlee, Helen Victoria
 Peach, John Sawford (as at February 19th, 1925)

Peacock, George Maxwell
 Perch, John Dennis
 Peter, Dorothea Clarissa
 Piché, Arthur
 Poucher, Maybelle
 Poulter, Vera
 Purcell, Gillis Philip
 Rendall, Margaret Elizabeth Olive
 Riddell, Everett Jefferson
 Riddell, Laura Willard
 Ritz, Doris Mabel
 Robertson, Helen Christina
 Robson, Norman
 Rochedieu, Charles Alfred
 Ross, Berythe Margret Wallace
 Ross, Fred Herbert (as at November 7th, 1924)
 Ross, Jessie McLean
 Roy, Germain
 Rundle, Frances
 Saunderson, Hugh Hamilton
 Silberfarb, Samuel
 Simpson, Charles Murray
 Sodomsky, Samuel
 St. John, Katherine (as at November 7th, 1924)
 Stephen, Joseph Alexander (as at November 7th, 1924)
 Stewart, Edith Mary
 Strachan, Dorothy
 Sturrock, Helen Adeline
 Sullivan, Kathleen Cecilia
 Sweet, Hannah Mooney
 Taylor, Arthur James
 Tessler, Nena
 Tétrault, Laurent
 Tod, Bertha
 Topper, Emily Joyce
 Treble, Verda Viola
 Tremblay, Roméo
 Usher, Janet
 Waines, William John
 Walker, John Curry
 Westgate, Reginald Wilfred
 Whitbread, Frank George
 White, Edward Wesley
 White, Mabel Elizabeth
 Wilkie, John Macgregor
 Wilson, Christina

Bachelor of Arts

(Ad eundem gradum)

Woods, David Scott, B.A., Queen's University, 1918 (as at December 4th, 1924.)

Bachelor of Science

Baker, William Franklin
 Bickle, Warner Pentland
 Bird, Ralph Durham
 Cantor, Max
 Finn, Donovan Bartley
 Fleming, Allan James (as at September 22nd, 1924)
 Greenberg, Abraham Berth
 Greer, Leonard
 Holland, Thomas Edward
 Hollenberg, Abraham, B.A.
 Hollenberg, Michael Samuel, M.A.
 Lockshin, Nathan
 Macdonald, Patrick Anderson
 Maynard, James Edward
 McLachlan, Edith May
 Morton, Janet Gibson
 Swartzman, Edward
 Watson, Herbert Arthur
 Zaslavsky, Morris

Bachelor of Science in Pharmacy

McDougall, Dougald

Diploma in Pharmacy

Balkwill, James Hessie
 Bingham, Owen
 Fisher, William James
 Francis, Harold Roblin
 Green, Herbert
 Herckmer, Ernest David
 Hober, Oric Scott
 Kurnarsky, Max
 McGregor, William Duncan
 Mann, Edward Henry
 Miller, Lawrence Reekie
 Muir, Herbert William
 Peters, William Edward
 Porter, Gerald
 Prefontaine, Jean Joseph, B.A.
 Ringer, Samuel
 Rowe, Stafford
 Runions, Wesley Douglas Gourlay, B.A.
 Shanas, Alexander Abraham
 Sherlock, Gerald Weldon
 Smith, Frederick William
 Vineberg, Samuel Edward
 Wallace, Robert Blythe
 Wightman, Reginald Frederick

Master of Arts

Bedard, Beatrice, B.A., Manitoba, 1920. Major: English Literature. Minor: French. Thesis:

"The Child in the Romantic Poets—Blake, Wordsworth and Thompson."

Beuglet, Delphine, B. A., Manitoba, 1923. Major: French Literature. Minor: English Literature. Thesis: "Port-Royal et Racine."

Bodanis, Rose Francis, B.A., Manitoba, 1921. Major: Hebrew. Minor: Biblical Aramaic. Thesis: "Maccabean Psalms in the Hebrew Psalter."

Doupe, Anna Josepha, B.A., Manitoba, 1898. Major: German Literature. Minor: French. Thesis: "Hebbels Behandlung der Nibelungensage."

Gauthier, Adéla, B.A., Manitoba, 1923. Major: French Literature. Minor: English Literature. Thesis: "Racine Dramaturge."

Golden, Harvey, B.A., Manitoba, 1923. Major: Canadian History. Minor: Economic History. Thesis: "The French Element in the Red River Settlement."

Hall (née Russell), Jean H, B.A., Manitoba, 1896.

Hall, Joseph Andrew, B.A., Manitoba, 1893, M.D., C.M.

Kirkby, David North, B.A., Manitoba, 1884.

Willows, Andrew, B.A., Manitoba, 1923. Major: Canadian History. Minor: German Literature. Thesis: "A History of the Mennonites, particularly in Manitoba."

Master of Science

Chataway, Helen Drinkwater, B.A., Manitoba, 1922; B.Sc., Manitoba, 1923. Major: Recent Theories in Organic Chemistry. Minor: Series Spectra. Thesis: "The Photo Bromination of P—Nitro Toluene" and "The Effect of a Magnetic Field on Organic Synthesis."

Master of Science—Continued

- Clare, Norval Douglas, B.Sc., Manitoba, 1923. Major: Theory of Solutions with special reference to Electrolytic Dissociation and Hydrogen Ion Concentration. Minor: Relation of Physical Properties to Chemical Constitution. Thesis: "Some Factors Affecting the Rate of Corrosion of Iron."
- Lipsett, Solomon George, B.Sc., Manitoba, 1921. Major: Certain Organic Heterocyclic Compounds. Minor: Allowed for work done at the University of California in Thermodynamics and Molecular Rearrangement. Thesis: "A Study of Certain Quinoline Compounds."
- Mar, Peter, B.Sc., Manitoba, 1922. Major: Chemistry of the Vegetable Alkaloids. Minor: Examination and Detection of Certain Drugs and Poisons. Thesis: "Attempts at the Synthesis of Certain Pyridine and Quinoline Derivatives Allied to some Decomposition Products of the Cinchona Alkaloids."
- Merritt, Clifford Addison, B.Sc., Manitoba, 1922. Major: Petrogenesis. Minor: Colloidal Chemistry. Thesis: "The Function of Gels in the Formation of Pegmatites, and of Quartz and Carbonate Veins."
- Thompson, Lucas Gilbert, B.Sc., Manitoba, 1919. Major: The Economic Geology of the Pre-Cambrian Period. Minor: Allowed for instructional work. Thesis: "Metamorphism in the Region of the Flin Flon Ore Body."
- Yarwood, Walter Samuel, B.Sc., Manitoba, 1923. Major: Petrogenesis. Minor: Colloidal Chemistry. Thesis: "The Iron Ore Deposit of Black Island, Lake Winnipeg."

Master of Science*Ad eundem gradum)*

- Jackson, Vincent William, M.Sc., University of Minnesota, 1923.

SUMMARY OF REGISTRATION, 1924-1925

The following summary is complete for the year 1924-1925 except for the enrollment in the Postgraduate Courses in Medicine, the Extension Courses for Retail Merchants, and the Manitoba Summer School. These were 26, 482 and 466 respectively for the year 1923-1924:

Arts—		Law—	
First Year, Group 1.....	304	First Year.....	17
First Year, Group 2.....	70	Second Year.....	16
First Year, Group 3.....	76	Third Year.....	11
Second Year, Group 1.....	286		— 44
Second Year, Group 2.....	55	Agriculture (Diploma Course)—	
Third Year.....	209	First Year.....	22
Fourth Year.....	160	Second Year.....	15
Fourth Year, Special		Third Year.....	10
Course for Teachers.....	26		— 47
Students with special or		Agriculture (Degree Course)—	
limited program.....	211	First Year.....	14
	—1397	Second Year.....	16
Master of Arts.....	66	Third Year.....	11
Science—		Fourth Year.....	11
Second Year (Honors).....	6	Fifth Year.....	9
Second Year, B.Sc.-M.D.	12		— 61
Third Year.....	22	Home Economics (Diploma Course)	
Fourth Year.....	11	First Year.....	27
Students with special or		Second Year.....	6
limited program.....	20	Third Year (Institutional	
	— 71	Management)	2
Master of Science.....	9	Special students	3
Pharmacy (Diploma Course)—			— 38
First Year.....	15	Home Economics (Degree Course)—	
Second Year.....	22	First Year.....	23
	— 37	Second Year.....	12
Medicine—		Third Year.....	14
First Year.....	73	Fourth Year.....	10
Second Year.....	59	Fifth Year.....	12
Third Year.....	39		— 71
Fourth Year.....	52	Extension Courses—	
Fifth Year.....	56	Evening Business	
	— 279	Courses.....	177
Engineering—		Nurses' Course.....	69
First Year.....	39		— 246
Second Year.....	25		2523
Third Year (Civil).....	24	Duplicate Registrations.....	70
Third Year (Electrical)....	13		— 2453
Fourth Year (Civil).....	7		
Fourth Year (Electrical)....	16		
Students with special or			
limited program.....	24		
	— 148		
Architecture—			
First Year.....	1		
Second Year.....	2		
Third Year.....	3		
Fourth Year.....	1		
Special Students.....	2		
	— 9		

In addition to the Calendar herein, the following Calendars are issued by the University of Manitoba and may be obtained on request from the Registrar:

1. Matriculation
2. Engineering and Architecture
3. Medicine
4. Law
5. Agriculture and Home Economics